

# **FEDERAL ITEM IDENTIFICATION GUIDE**

## **CENTRIFUGALS, FILTERS (PRESSURE AND VACUUM), AND SEPARATORS**

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Commander

Defense Logistics Information Service

ATTN: DLIS-K

74 Washington Avenue North, Suite 7

Battle Creek, Michigan 49037-3084

(COMM) (269) 961-5779

(DSN) 661-5779

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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## GENERAL INFORMATION

### 1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

### 2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

#### a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

#### b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (\*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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### c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

#### (1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (\*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

#### (2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

#### (b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (\*). Steps (1) through (6) are repeated for each application of the requirement.

#### (c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (\*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

### (3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

### (4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

### (5) Reply Code:

A code that represents an established authorized reply to a requirement.

#### d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

#### e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

#### f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

#### g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

### 4. Special Instructions and Indicator Definitions

#### a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

#### b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

### 5. Indexes

#### a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

#### b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

#### c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

### 6. Maintenance

Requests for revisions and other changes will be directed to:

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
<b>Cover</b>		
1. (Mechanical) An item which partially incloses an object or closes an opening partially or completely. Excludes items which are permanently fixed to the object(s), with which used, by hinges or similar fastening devices.		
COVER (1), FLUID FILTER	22569	DA
A rigid item of various shapes designed as a component of a fluid filter, acting as the cover and retaining the filter element in place. The item does not have an inlet or outlet connection. It is fastened onto the FILTER BODY, FLUID by means of clamps or bolts. For items with inlet and/or outlet connections, see HEAD, FLUID FILTER.		
COVER (1), FLUID STRAINER	52889	DA
An item of various shapes designed as a component of a STRAINER, SEDIMENT, acting as the cover and retaining the strainer element in place. The item does not have an inlet or outlet connection. It is fastened onto the STRAINER BODY, SEDIMENT by means of bolts, clamps or threaded. For items with inlet and/or outlet connections, see HEAD, FILTER FLUID.		
COVER (1), WATER SEPARATOR	66619	DA
A cover of various shapes designed as a component of a water separator. The cover is fastened to the separator by means of a seal, locking ring or the like. It does not have an inlet or outlet connection and may or may not have a handle(s).		
<b>Filter</b>		
1. An apparatus designed to purify and/or clarify fluids, such as air, oil, water, gas, gasoline, and the like, by separating foreign matter. The filtering element may be of a porous material, such as charcoal, cotton, paper, fibrous disks, or may be closely spaced metal disks or a series of closely-wound wires. See also STRAINER (as modified) and STRAINER ELEMENT, SEDIMENT.		
FILTER-SEPARATOR, LIQUID FUEL	22235	BA
An item designed to remove water and solid particulates from contaminated liquid fuels. It consists primarily of a tank with a removable head or a pressure vessel containing electrodes and inlet connections, filtering elements, and may contain water accumulator sump(s), alternating electric fields, necessary flow controls, gages, and accessories. It is used in military aircraft and vehicular fueling and in military pipeline systems. Excludes SEPARATOR, WATER, LIQUID FUEL and FILTER-SEPARATOR, LIQUID FUEL, TRAILER MOUNTED.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
FILTER-SEPARATOR, LIQUID FUEL, TRAILER MOUNTED	22236	BB
A trailer mounted item designed to filter out solid material contaminants and separate water from liquid fuels. It consists primarily of a tank with a removable head, inlet and outlet connections, filtering elements, water separating media, water accumulator sump(s), necessary flow controls, gages, and accessories. The unit may be mounted on a two wheel or four wheel trailer.		
FILTER UNIT, FLUID, PRESSURE	04213	AB
A machine designed to remove foreign particles and/or impurities from a fluid which is passed through an element of porous material or thin closely spaced disks. It includes a source of power and a circulating pump for forcing the fluid through the system under pressure.		
HEAD, FLUID FILTER	22570	EA
A component of a fluid filter designed to contain the inlet and/or outlet ports of the filter. It acts as a cover and attaches to the fluid filter body or mounts directly to an integral cavity in an engine, manifold, casing, or the like. The item may include relief, check, by-pass valves, and/or fluid filter element(s). It may have means for supporting the filter elements(s), and means for mounting the filter. Excludes HEAD, SEDIMENT STRAINER and COVER, FLUID FILTER.		
HEAD, SEDIMENT STRAINER	22571	EA
A component of a sediment strainer designed to contain the inlet and/or outlet ports of the strainer. It acts as a cover and attaches to the BOWL, SEDIMENT or mounts directly to an integral cavity in an engine, manifold, casing or the like. The item may include relief, check, and/or by-pass valves, means for supporting the strainer element, and means for mounting the strainer. The item does not include a strainer element. Excludes HEAD, FLUID FILTER.		
PURIFIER, CENTRIFUGAL, OIL	04359	CA
A mechanical device containing a cylindrical vessel or bowl which rotates on its axis at a high rate of speed. Contaminated oil is injected under pressure and by means of centrifugal force the harmful solids, insoluble sludge and water are removed.		
SEPARATOR, OIL	04257	BC
An enclosed tank or vessel specifically designed to remove harmful solids, insoluble sludge, and water by the force of gravity from continuous flow of contaminated oil. Exclude settling tanks		
SEPARATOR-PURGER, FUEL, DIESEL ENGINE	50202	AB
A systematic device consisting of a control panel, pump, collection container, removable filters and/or separators and the like. It is designed to remove water/contaminates/air from the fuel system while keeping the system primed.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
SEPARATOR, WATER, LIQUID FUEL	17964	BD
A self-contained unit designed to remove water from liquid fuel products. It usually consists of a tank with a removable head, inlet and outlet connections, water accumulator sump(s), water separating media, and necessary controls. Excludes FILTER-SEPARATOR, LIQUID FUEL.		
SKIMMER, OIL RECOVERY	47617	BC
An item designed to remove a floating element such as, oil, fuel, from water.		
SKIMMER UNIT, OIL RECOVERY	47194	AB
An assembled unit consisting of a skimmer, prime movers, power pack, suction pack, and the necessary components such as skimmer hoses, transfer hoses to provide for a complete recovery operation.		



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## APPLICABILITY KEY INDEX

### AB

NAME	X
AMQY	X
CCZK	AR
BJDW	X
APQB	X
NMBR	AR
CCZL	AR
CCZM	X
ADNF	X
ADNG	X
CCZN	X
ADNH	X
CCZP	X
BGSS	AR
CCZQ	AR
CCZS	X
CCZT	AR
AMWK	AR
CCFR	X
CCZW	X
ALQL	X
CCRG	X
CDBK	AR
CDBL	AR
CDBM	AR
CDWN	AR
CDWP	AR
ATJK	X
ANCY	AR
BDWW	AR
ACDC	AR
AMSE	AR
AJSS	AR
FAAZ	AR
AYQD	AR
CDWQ	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR

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CBME	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZV	AR
AGAV	AR
CXCY	AR

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	<u>BA</u>	<u>BB</u>	<u>BC</u>	<u>BD</u>
NAME	X	X	X	X
ATQB	X	X	X	X
ARJA	X	X		X
BJKS	X	X		X
ADNF	X	X		
CDWR	X	X		
AQXP	X	X		X
ACQW	X	X		X
ANHY	X	X		X
ARTG	X	X		X
ARTH	X	X		X
BMWJ	X	X		X
CDWS	X	X		
CDWT	X	X		
AAXX	AR			AR
AMWJ	X	X		
ABJH	AR	AR		
ASJG	X			
CDWW	AR			
AMRN	AR			
ABRY	AR			
APGF	X			
BCNY		X		
BLMR		X		
BYNT		AR		
BYNW		AR		
CDWX		AR		
AAYD			X	
AKYN				AR
FEAT	AR	AR	AR	AR
TEST	AR	AR	AR	AR
SPCL	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR
CRTL	AR	AR	AR	AR
PRPY	AR	AR	AR	AR
ELRN	AR	AR	AR	AR
ELCD	AR	AR	AR	AR
CBME	AR	AR	AR	AR
SUPP	AR	AR	AR	AR
FCLS	AR	AR	AR	AR
FTLD	AR	AR	AR	AR
TMDN	AR	AR	AR	AR
RTSE	AR	AR	AR	AR
RDAL	AR	AR	AR	AR
NTRD	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR
AGAV	AR	AR	AR	AR
CXCY	AR	AR	AR	AR

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CA

NAME	X
BBLT	X
BDXW	X
CDWY	X
ASHK	X
AZKJ	X
ELEC	AR
AJSS	AR
FAAZ	AR
CDWZ	X
CDXB	X
AHZZ	AR
CDXC	X
CDXD	X
CDXF	X
CDXG	X
CDXH	AR
AQZF	X
CDXJ	X
AENC	AR
AKCV	AR
AQGA	AR
AQGB	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZV	AR
AGAV	AR
CXCX	AR

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DA

NAME	X
MATL	X
ABSX	X
ABMW	X
ABGL	AR
ABKG	AR
ABKV	AR
ABRY	AR
ADNU	AR
ADNX	AR
ADNY	AR
ADNZ	AR
ADPA	AR
ADPB	AR
ADPC	AR
ADPD	AR
ADPE	AR
ADPF	AR
ADPG	AR
ADPK	AR
ADPL	AR
AFQH	AR
ASDB	AR
HGTH	AR
ADNV	AR
ADNW	AR
ADPH	AR
ADPJ	AR
ADPM	AR
ABRG	AR
AAGR	X
AARX	AR
AAVL	AR
ABKU	AR
ADPN	AR
ADPP	AR
ADPQ	AR
ADPR	AR
ADPT	AR
ADPU	AR
ADPV	AR
ADPW	AR
ADPX	AR
ADPY	AR
ADPZ	AR
ADQA	AR
ADPS	AR
CDXK	AR
ABUJ	AR
ADQK	AR
AAUB	AR
ABGC	AR
ABGD	AR

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CDXL	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZV	AR
AGAV	AR
CXCY	AR

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EA

NAME	X
MATL	X
CDXM	AR
ARNX	AR
CRHS	AR
CRJG	AR
CTPK	AR
ACRW	AR
CTPM	AR
CDXN	AR
ACRX	AR
ACTJ	AR
ACRD	AR
ACRG	AR
ACRH	AR
CDXP	AR
ARNM	AR
ARNN	AR
ARNQ	AR
ARNT	AR
ARNP	AR
CDXQ	AR
ARTX	AR
CSJD	AR
BZSW	AR
CXBR	AR
CDXR	AR
CWMN	AR
CDXS	AR
ARTY	AR
CDXT	AR
CDXW	AR
BHCQ	AR
BHCP	AR
CDXX	AR
ARTM	AR
ARTN	AR
ARTQ	AR
ARTT	AR
ARTP	AR
CDXY	X
ASHM	AR
ALBY	AR
CDXZ	AR
CDYB	AR
CDYC	X
NMBR	AR
AAUB	AR
ABKG	AR
CDYD	X
ADNG	AR
ADNH	AR
CDBH	AR



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ADAV	AR
ABHP	AR
ABMK	AR
ABKW	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZV	AR
AGAV	AR
CXCY	AR

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## Body

### SECTION: A

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

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ALL

NAME	D	ITEM NAME
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Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in General Information Section. (e.g., NAMED04213\*)

ALL

AMQY	D	INSTALLATION DESIGN
------	---	---------------------

Definition: THE INSTALLATION FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AMQYDAK\*)

<u>REPLY CODE</u>
-------------------

AJ
AK
AF

<u>REPLY (AJ17)</u>
---------------------

FIXED
MOBILE
PORTABLE

NOTE FOR MRC CCZK: REPLY TO THIS MRC IF REPLY CODE AK IS ENTERED FOR MRC AMQY.

ALL\* (See Note Above)

CCZK	D	MOBILITY SUPPORT TYPE
------	---	-----------------------

Definition: INDICATES THE TYPE OF SUPPORT PROVIDED FOR MOBILITY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZKDBM\*)

<u>REPLY CODE</u>
-------------------

BM
BN

<u>REPLY (AM61)</u>
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CASTERS
DOLLY TRUCK

FIIG T  
Section Parts

APP  
Key

MRC

Mode Code

Requirements

BP

FRAME EQUIPPED W/CASTERS

ALL

BJDW

J

MAXIMUM OPERATING PRESSURE

Definition: THE MAXIMUM PRESSURE AT WHICH AN ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJDWJDQ1000.0\*; BJDWJCR450.0\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., BJDWKN\*)

REPLY CODE

CR

DQ

REPLY (AJ20)

KILOGRAMS PER SQUARE CENTIMETER

POUNDS PER SQUARE INCH

ALL

APQB

D

UNIT TYPE

Definition: INDICATES THE TYPE OF UNIT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APQBDACY\*)

REPLY CODE

BNG

ACY

REPLY (AK95)

MULTIPLE

SINGLE

NOTE FOR MRCS NMBR AND CCZL: REPLY TO THESE MRCS IF REPLY CODE BNG IS ENTERED FOR MRC APQB.

ALL\* (See Note Above)

NMBR

A

QUANTITY

Definition: A NUMERIC VALUE WHICH REPRESENTS A POSITIVE WHOLE VALUE WITHOUT REGARD TO ANY UNIT OF MEASURE.

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
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Reply Instructions: Enter the quantity. (e.g., NMBRA2\*)

ALL\* (See Note Preceding MRC NMBR)

CCZL	D	SWITCH-OVER VALVE
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Definition: AN INDICATION OF WHETHER OR NOT A SWITCH-OVER VALVE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZLDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS CCZM, ADNF, ADNG, CCZN, AND ADN H: IF MORE THAN ONE TYPE OF ELEMENT IS FURNISHED, USE AND/OR (\$/\$) CODING ENTERING A REPLY FOR EACH DIFFERENT ELEMENT IN THE SAME SEQUENCE AS MRC CCZM.

ALL (See Note Above)

CCZM	A	FILTERING ELEMENT QUANTITY
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Definition: THE NUMBER OF FILTERING ELEMENTS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., CCZMA12\*; CCZMA4\$A6\*; CCZMA12\$\$A16\*)

ALL (See Note Preceding MRC CCZM)

ADNF	D	FILTERING MATERIAL
------	---	--------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FILTERING MATERIAL IS COMPOSED.

Reply Instructions: Enter the applicable Reply Codes from [Appendix A](#), Table 1. (e.g., ADNFDALC000\*; ADNFDAS0000\$DBR0000\*; ADNFDCAA000\$DCY0000\*)

ALL (See Note Preceding MRC CCZM)

ADNG	D	FILTERING MATERIAL DESIGN
------	---	---------------------------

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

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Definition: THE DESIGN OF THE FABRICATED FILTERING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., ADNGDAC\*; ADNGDAC\$DAL\*; ADNGDAJ\$\$DAN\*)

ALL (See Note Preceding MRC CCZM)

CCZN	D	ELEMENT REUSABILITY FEATURE
------	---	-----------------------------

Definition: THE DESIGN CAPABILITY WHICH ALLOWS THE ELEMENT TO BE CLEANED AND USED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZNDAB\*; CCZNDAE\$DAB\*; CCZNDAE\$\$DAB\*)

REPLY CODE

AE  
AB

REPLY (AJ61)

NONREUSABLE  
REUSABLE

ALL (See Note Preceding MRC CCZM)

ADNH	J	FILTRATION RATING IN MICRONS
------	---	------------------------------

Definition: THE SIZE OF THE SMALLEST PARTICLE WHICH THE ELEMENT IS CAPABLE OF REMOVING FROM THE FLUID WHICH PASSES THROUGH THE FILTERING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ADNHJA10.0\*; ADNHJB9.5\$\$JC10.5\*; ADNHJA12.0\*; ADNHJA12.0\$JA24.0\*; ADNHJB6.0\$\$JC9.0\$JB12.0\$\$JC18.0\*)

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL

CCZP	D	CLEANING BLADE
------	---	----------------

FIIG T  
Section Parts

APP										
Key	MRC		Mode Code							Requirements

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Definition: AN INDICATION OF WHETHER OR NOT A CLEANING BLADE(S) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZPDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS CDBL AND CCZQ: REPLY TO THESE MRCS IF REPLY CODE B IS ENTERED FOR MRC CCZP.

ALL\* (See Note Above)

BGSS                      D                      ROTATING DEVICE TYPE

Definition: INDICATES THE TYPE OF ROTATING DEVICE PROVIDED ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGSSDGW\*)

<u>REPLY CODE</u>	<u>REPLY (AC82)</u>
GW	BLADE
FA	ELEMENT

ALL\* (See Note Preceding MRC BGSS)

CCZQ                      D                      ROTATION METHOD

Definition: THE MEANS BY WHICH THE ITEM IS ROTATED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCQZDAC\*)

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
AC	ELECTRIC MOTOR
AF	HYDRAULIC MOTOR
CF	MANUAL



FIIG T  
Section Parts

APP									
Key	MRC		Mode Code		Requirements				

---

ALL

CCZS                      D                      FLOW TYPE

Definition: INDICATES THE TYPE OF FLOW PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZSDAAW\*)

<u>REPLY CODE</u>	<u>REPLY (AK04)</u>
AAW	BYPASS
AAX	FULL

NOTE FOR MRC CCZT: REPLY TO THIS MRC IF REPLY CODE AAW IS ENTERED FOR MRC CCZS.

ALL\* (See Note Above)

CCZT                      D                      BYPASS VALVE

Definition: AN INDICATION OF WHETHER OR NOT A BYPASS VALVE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZTDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC AMWK: REPLY TO THIS MRC IF REPLY CODE B IS ENTERED FOR MRC CCZT.

ALL\* (See Note Above)

AMWK                      D                      BYPASS VALVE OPERATION METHOD

Definition: THE MEANS USED TO OPERATE THE BYPASS VALVE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AMWKDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA77)</u>
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FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		B	AUTOMATIC
		C	MANUAL

ALL

CCFR            D            MAGNET

Definition: AN INDICATION OF WHETHER OR NOT A MAGNET(S) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCFRDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

CCZW            D            AIR-BLEED VALVE

Definition: AN INDICATION OF WHETHER OR NOT AN AIR-BLEED VALVE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZWDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

ALQL            D            DRAIN PLUG

Definition: AN INDICATION OF WHETHER OR NOT A DRAIN PLUG IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALQLDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
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FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		B	INCLUDED
		C	NOT INCLUDED

ALL

CCRG            D            DRAIN COCK

Definition: AN INDICATION OF WHETHER OR NOT A DRAIN COCK IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCRGDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL\*

CDBK            D            SEDIMENT BOWL MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SEDIMENT BOWL IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., CDBKDCU0000\*; CDBKDAL0000\$DBR0000\*; CDBKDAL0000\$DBR0000\*)

ALL\*

CDBL            J            STORAGE FACILITY CAPACITY

Definition: THE CAPACITY OF THE STORAGE FACILITY(IES).

Reply Instructions: Enter the applicable Reply Codes from the table below, followed by the numeric value. (e.g., CDBLJAF3.0\*; CDBLJCC11.3\*)

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
AF	GALLONS
CC	LITERS

ALL\*

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	CDBM	G	CIRCULATING PUMP MANUFACTURER NAME
	Definition: THE NAME OF THE MANUFACTURE OF THE CIRCULATING PUMP.		
	Reply Instructions: Enter the reply in clear text. (e.g., CDBMGVIKING PUMP COMPANY*)		
ALL*			
	CDWN	G	CIRCULATING PUMP MANUFACTURER IDENTIFYING NAME
	Definition: THE NAME USED BY THE MANUFACTURER FOR IDENTIFYING THE CIRCULATING PUMP.		
	Reply Instructions: Enter the reply in clear text. (e.g., CDWNGROTARY PRESSURE PUMP*)		
ALL*			
	CDWP	G	CIRCULATING PUMP MANUFACTURER IDENTIFYING NUMBER
	Definition: THE NUMBER USED BY THE MANUFACTURER FOR IDENTIFYING THE CIRCULATING PUMP.		
	Reply Instructions: Enter the reply in clear text. (e.g., CDWPGMODEL NO. ICFI*)		
ALL			
	ATJK	D	POWER SOURCE
	Definition: THE SOURCE OF POWER WHICH DRIVES THE ITEM.		
	Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ATJKDAD*)		
	<u>REPLY CODE</u>		<u>REPLY (AG27)</u>
	AC		DIESEL ENGINE
	AD		ELECTRIC MOTOR
	AE		GASOLINE ENGINE

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRCS ANCY, BDWW, ACDC, AND AYQD: REPLY TO MRCS ANCY, BDWW, AND ACDC IF REPLY CODE AD IS ENTERED FOR MRC ATJK. REPLY TO MRCS ANCY, BDWW, AND AYQD IF REPLY CODE AC OR AE IS ENTERED FOR MRC ATJK.

ALL\* (See Note Above)

ANCY	B	HORSEPOWER RATING
------	---	-------------------

Definition: AN INDICATION OF THE RATED HORSEPOWER OF THE ITEM.

Reply Instructions: Enter the numeric value. (e.g., ANCYB1.500\*)

ALL\* (See Note Preceding MRC ANCY)

BDWW	J	WATTAGE RATING
------	---	----------------

Definition: THE RATED POWER THAT AN ITEM CAN SAFELY CONSUME OR PROVIDE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BDWWJAT750.0\*; BDWWJBC4.250\$\$JBC6.000\*)

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
BC	KILOWATTS
AT	WATTS

ALL\* (See Note Preceding MRC ANCY)

ACDC	D	CURRENT TYPE
------	---	--------------

Definition: INDICATES THE TYPE OF CURRENT WHETHER ALTERNATING, DIRECT, OR BOTH.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACDCDB\*)

<u>REPLY CODE</u>	<u>REPLY (AB62)</u>
B	AC
D	AC/DC
C	DC

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

NOTE FOR MRCS AMSE, AJSS, AND FAAZ: REPLY TO MRCS AMSE, AJSS, AND FAAZ IF REPLY CODE B IS ENTERED FOR MRC ACDC. IF REPLY CODE C IS ENTERED FOR MRC ACDC, REPLY TO MRC AMSE.

ALL\* (See Note Above)

AMSE                      J                      VOLTAGE RATING

Definition: THE VALUE(S) OF POTENTIAL FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Code from Tables 1 and 2 below, followed by the numeric value. (e.g., AMSEJVA110.0\*; AMSEJVB110.0\$\$JVC120.0\*)

Table 1

REPLY CODE

V

REPLY (AB63)

VOLTS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL\* (See Note Preceding MRC AMSE)

AJSS                      J                      FREQUENCY IN HERTZ

Definition: THE CYCLES PER SECOND (HERTZ) OF THE ALTERNATING CURRENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AJSSJA60.0\*; AJSSJB60.0\$\$JC65.0\*)

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL\* (See Note Preceding MRC AMSE)

FAAZ                      D                      PHASE

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

---

Definition: THE NUMBER OF ALTERNATING CURRENT PHASES.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., FAAZDA\*)

<u>REPLY CODE</u>	<u>REPLY (AD02)</u>
A	SINGLE
E	SINGLE/THREE
C	THREE
B	TWO

ALL\* (See Note Preceding MRC ANCY)

AYQD	J								RATED SPEED IN RPM
------	---	--	--	--	--	--	--	--	--------------------

Definition: THE RATED SPEED FOR WHICH THE ITEM HAS BEEN TESTED TO PERFORM, EXPRESSED IN REVOLUTIONS PER MINUTE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AYQDJA1400.0\*; AYQDJB1400.0\$\$JC1500.0\*)

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\*

CDWQ	D								HEATING SYSTEM TYPE
------	---	--	--	--	--	--	--	--	---------------------

Definition: INDICATES THE TYPE OF HEATING SYSTEM INCLUDED IN OR ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDWQDAL\*)

<u>REPLY CODE</u>	<u>REPLY (AB04)</u>
AL	ELECTRIC ELEMENT
AM	STEAM BOILER

FIIG T  
Section Parts

**SECTION: B**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED22235\*)

ALL

ATQB	J	OUTPUT CAPACITY
------	---	-----------------

Definition: THE RATED OUTPUT CAPACITY OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ATQBJAMA300.0\*; ATQBJAWA1135.5\*; ATQBJAMB275.0\$\$JAMC325.0\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ATQBKN\*)

Table 1

REPLY CODE

AM

AW

BG

BW

REPLY (AG20)

GALLONS PER MINUTE

LITERS PER MINUTE

METRIC TONS PER HOUR

TONS PER HOUR

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

BA, BB, BD

ARJA	J	PRESSURE RATING
------	---	-----------------

Definition: THE PRESSURE AT WHICH AN ITEM IS RATED TO OPERATE.



FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

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Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ARJAJV125.0\*; ARJAJK58.0\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ARJAKN\*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

BA, BB, BD

BJKS	D	TANK MATERIAL
------	---	---------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE TANK IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BJKSDALC000\*; BJKSDALC000\$\$DAS0000\*; BJKSDAL0000\$DAS0000\*)

BA, BB

ADNF	D	FILTERING MATERIAL
------	---	--------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FILTERING MATERIAL IS COMPOSED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., ADNFDFA0000\*; ADNFDFA0000\$\$DFTA000\*; ADNFDFA0000\$DFTA000\*)

BA, BB

CDWR	D	WATER SEPARATING MEDIA MATERIAL
------	---	---------------------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE WATER SEPARATING MEDIA IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., CDWRDFG0000\*; CDWRDFG0000\$\$DGS0000\*)

BA, BB, BD

AQXP	A	INLET CONNECTION QUANTITY
------	---	---------------------------

FIIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

Definition: THE NUMBER OF INLET CONNECTIONS ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., AQXPA2\*)

BA, BB, BD

ACQW                    D                    INLET CONNECTION TYPE

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF INLET CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACQWDNT\*; ACQWDGP\$DBG\*)

<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
NT	CAM LOCKING QUICK DISCONNECT
NW	COUPLING HALF, QUICK DISCONNECT, INTERNAL
BJ	FLANGED
GP	GROOVED
BX	PIPE
BG	THREADED
NX	THREADED INTERNAL COUPLING

BA, BB, BD

ANH Y                    A                    INLET CONNECTION SIZE

Definition: DESIGNATES THE SIZE OF THE INLET CONNECTION INCLUDED ON THE ITEM.

Reply Instructions: Enter the size. (e.g., ANHYA1/2IN.\*)

BA, BB, BD

ARTG                    A                    OUTLET CONNECTION QUANTITY

Definition: THE NUMBER OF OUTLET CONNECTIONS ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ARTGA1\*)

BA, BB, BD

ARTH                    D                    OUTLET CONNECTION TYPE

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF OUTLET CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTHDNT\*)

<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
NT	CAM LOCKING QUICK DISCONNECT
NW	COUPLING HALF, QUICK DISCONNECT, INTERNAL
BJ	FLANGED
GP	GROOVED
BX	PIPE
BG	THREADED
NX	THREADED INTERNAL COUPLING

BA, BB, BD

BMWJ	A	OUTLET CONNECTION SIZE
------	---	------------------------

Definition: DESIGNATES THE SIZE OF THE OUTLET CONNECTION INCLUDED ON THE ITEM.

Reply Instructions: Enter the size. (e.g., BMWJA4IN.\*)

BA, BB

CDWS	A	ACCUMULATOR SUMP QUANTITY
------	---	---------------------------

Definition: THE NUMBER OF ACCUMULATOR SUMPS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., CDWSA1\*)

BA, BB

CDWT	D	ACCUMULATOR SUMP WATER DISCHARGE OPERATION METHOD
------	---	--

Definition: THE MEANS USED TO DISCHARGE WATER FROM THE ACCUMULATOR SUMP.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDWTDAABD\*; CDWTDAAAF\$DAABD\*)

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
		AABD	AUTOMATIC
		AAAF	MANUAL

BA\*, BD\*

AAXX            D            MOUNTING TYPE

Definition: INDICATES THE TYPE OF MOUNT UTILIZED TO SUPPORT THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAXXDBF\*)

<u>REPLY CODE</u>	<u>REPLY (AA78)</u>
BF	BASE
CL	BRACKET
QY	LEGS W/BASE PAD
AT	SKID
BQ	TRIPOD
FE	U-TYPE BRACKET

BA, BB

AMWJ            D            WINTERIZATION FEATURE

Definition: AN INDICATION OF WHETHER OR NOT WINTERIZATION IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AMWJDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC ABJH: REPLY TO THIS MRC IF REPLY CODE B IS ENTERED FOR MRC AMWJ.

BA\*, BB\* (See Note Above)

ABJH            J            TEMP RATING

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

---

Definition: A VALUE WHICH EXPRESSES THE DEGREE OF HEAT OR COLD AS APPLIED TO THE OPERATION, OR LIMITATION OF OPERATION, OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ABJHJF65.0\*)

<u>REPLY CODE</u>	<u>REPLY (AB36)</u>
C	DEG CELSUIS
F	DEG FAHRENHEIT

BA

ASJG	D	ADAPTER
------	---	---------

Definition: AN INDICATION OF WHETHER OR NOT AN ADAPTER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASJGDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS CDWW, AMRN, AND ABRY: REPLY TO THESE MRCS IF REPLY CODE B IS ENTERED FOR MRC ASJG. USE AND/OR (\$\$/ \$) CODING FOR EACH DIFFERENT TYPE AND/OR SIZE ADAPTER. ENTER REPLIES IN THE SAME SEQUENCE AS MRC CDWW.

BA\* (See Note Above)

CDWW	J	ADAPTER TYPE AND QUANTITY
------	---	---------------------------

Definition: INDICATES THE TYPE AND NUMBER OF ADAPTERS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., CDWWJQZ2\*; CDWWJQZ\$JRB1\*; CDWWJRA2\$\$JRB2\*)

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
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<u>REPLY CODE</u>	<u>REPLY (AA78)</u>
QZ	FLANGED
RA	FLANGED TO GROOVED
RB	FLANGED TO QUICK DISCONNECT

BA\* (See Note Preceding MRC CDWW)

AMRN	J	SIZE DESIGNATOR
------	---	-----------------

Definition: A DESIGNATION INDICATING THE SIZE BY WHICH THE ITEM IS  
COMMERCIALY KNOWN AND/OR IDENTIFIED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below,  
followed by the numeric value. (e.g., AMRNJAA4.000\*; AMRNJLA25.4\*;  
AMRNJAB3.475\$\$JAC4.025\*; AMRNJAA3.000\$JAA4.000\*;  
AMRNJAB3.975\$\$JAC4.025\$JAB4.975\$\$JAC5.025\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

BA\* (See Note Preceding MRC CDWW)

ABRY	J	LENGTH
------	---	--------

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY  
OBJECT, IN DISTINCTION FROM WIDTH.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value measured from end to end. (e.g., ABRYJAA6.000\*; ABRYJLA25.4\*; ABRYJAB5.975\$\$JAC6.025\*; ABRYJAA5.000\$JAA6.000\*; ABRYJAB5.975\$\$JAC6.025\$JAB6.500\$\$JAC6.750\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

BA

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDASP\*)

REPLY CODE

ASP

ASD

REPLY (AK54)

HORIZONTAL

VERTICAL

BB

BCNY	A	TRAILER WHEEL QUANTITY
------	---	------------------------

Definition: THE NUMBER OF WHEELS INCLUDED ON THE TRAILER.

Reply Instructions: Enter the quantity. (e.g., BCNYA4\*)

BB

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	BLMR	D	TRAILER TIRE TYPE
	Definition: INDICATES THE TYPE OF TIRE PROVIDED ON THE TRAILER.		
	Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BLMRDAD*)		
		<u>REPLY CODE</u>	<u>REPLY (AH67)</u>
		AD	PNEUMATIC
		AC	STEEL
BB*			
	BYNT	G	TRAILER MANUFACTURER NAME
	Definition: THE NAME OF THE MANUFACTURER OF THE TRAILER.		
	Reply Instructions: Enter the reply in clear text. (e.g., BYNTGHARVICK MFG CO*)		
BB*			
	BYNW	G	TRAILER IDENTIFYING NUMBER
	Definition: THE IDENTIFICATION NUMBER OF THE TRAILER.		
	Reply Instructions: Enter the reply in clear text. (e.g., BYNWG5432*)		
BB*			
	CDWX	G	VEHICLE NAME
	Definition: THE NOMENCLATURE BY WHICH THE VEHICLE IS IDENTIFIED.		
	Reply Instructions: Enter the reply in clear text. (e.g., CDWXGTRAILER*)		
BC			
	AAYD	A	STAGE QUANTITY
	Definition: THE NUMBER OF STAGES INCORPORATED IN THE ITEM.		
	Reply Instructions: Enter the quantity. (e.g., AAYDA1*)		
BD*			



FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	AKYN	G	FURNISHED ITEMS AND QUANTITY

Definition: THE NAME AND NUMBER OF THOSE PARTS FURNISHED WITH THE ITEM OF SUPPLY THAT HAVE NOT BEEN SPECIFIED ELSEWHERE.

Reply Instructions: Enter the reply in clear text. (e.g., AKYNGAIR CLEANER VALVE 1\*)

List only the furnished items of such logistical significance to warrant assignment of different National Stock Numbers.

FIIG T  
Section Parts

**SECTION: C**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04359\*)

ALL

BBLT	J	CAPACITY RATING
------	---	-----------------

Definition: A MEASUREMENT OF THE CAPACITY OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBLTJDCA100.0\*; BBLTJGJA378.5\*; BBLTJDCB90.0\$\$JDCC110.0\*)

Table 1

REPLY CODE

DC

GJ

REPLY (AG67)

GALLONS PER HOUR

LITERS PER HOUR

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

BDXW	D	BOWL MATERIAL
------	---	---------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE BOWL IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BDXWDST0000\*)

ALL

FIIG T  
Section Parts

APP  
Key

MRC

Mode Code

Requirements

CDWY

B

MAXIMUM BOWL SPEED IN RPM

Definition: THE MAXIMUM SPEED AT WHICH THE BOWL WILL OPERATE, EXPRESSED IN REVOLUTIONS PER MINUTE.

Reply Instructions: Enter the numeric value. (e.g., CDWYB7200.0\*)

ALL

ASHK

B

ELECTRIC MOTOR HORSEPOWER RATING

Definition: THE RATED HORSEPOWER OF THE ELECTRIC MOTOR.

Reply Instructions: Enter the numeric value. (e.g., ASHKB1.5\*)

ALL

AZKJ

D

MOTOR CURRENT TYPE

Definition: INDICATES THE TYPE OF CURRENT REQUIRED TO OPERATE THE MOTOR.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AZKJDB\*)

REPLY CODE

B

D

C

REPLY (AB62)

AC

AC/DC

DC

NOTE FOR MRCS ELEC, AJSS, AND FAAZ: REPLY TO MRCS ELEC, AJSS, AND FAAZ IF REPLY CODE B OR D IS ENTERED FOR MRC AZKJ. REPLY TO MRC ELEC IF REPLY CODE C IS ENTERED FOR MRC AZKJ.

ALL\* (See Note Above)

ELEC

B

VOLTAGE IN VOLTS

Definition: THE TOTAL ELECTRICAL VOLTAGE.

Reply Instructions: Enter the numeric value. (e.g., ELECB440.0\*)

ALL\* (See Note Preceding MRC ELEC)

AJSS

J

FREQUENCY IN HERTZ

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Definition: THE CYCLES PER SECOND (HERTZ) OF THE ALTERNATING CURRENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AJSSJA60.0\*)

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ELEC)

FAAZ	D	PHASE
------	---	-------

Definition: THE NUMBER OF ALTERNATING CURRENT PHASES.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., FAAZDC\*)

<u>REPLY CODE</u>	<u>REPLY (AD02)</u>
A	SINGLE
E	SINGLE/THREE
C	THREE
B	TWO

ALL

CDWZ	B	MOTOR SPEED IN RPM
------	---	--------------------

Definition: THE SPEED AT WHICH THE MOTOR WILL OPERATE, EXPRESSED IN REVOLUTIONS PER MINUTE.

Reply Instructions: Enter the numeric value. (e.g., CDWZB1735.0\*)

ALL

CDXB	D	MOTOR INCLOSURE TYPE
------	---	----------------------

Definition: INDICATES THE TYPE OF INCLOSURE PROVIDED TO COAT, COVER, PROTECT, OR ENCASE THE MOTOR.

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXBDAX\*)

<u>REPLY CODE</u>	<u>REPLY (AG85)</u>
AX	INCLOSED
AE	OPEN
AP	PARTIALLY INCLOSED

NOTE FOR MRC AHZZ: REPLY TO THIS MRC IF REPLY CODE AX OR AP IS ENTERED FOR MRC CDXB.

ALL\* (See Note Above)

AHZZ	D	MOTOR ENVIRONMENTAL PROTECTION
------	---	--------------------------------

Definition: THE ENVIRONMENTAL ELEMENTS OR CONDITIONS THAT THE MOTOR IS DESIGNED OR PROTECTED TO RESIST OR WITHSTAND SATISFACTORILY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AHZZDCR\*)

<u>REPLY CODE</u>	<u>REPLY (AA65)</u>
CR	DRIPPROOF
BV	DUSTPROOF
BW	EXPLOSION PROOF
FP	SPRAY TIGHT
CL	VAPORTIGHT
AQ	WATERPROOF

ALL

CDXC	D	MOTOR MOUNTING POSITION
------	---	-------------------------

Definition: THE INSTALLED POSITION FOR WHICH THE MOTOR IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXCDAAP\*)

<u>REPLY CODE</u>	<u>REPLY (AM84)</u>
AAP	HORIZONTAL
AAF	VERTICAL

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

---

ALL

CDXD                      G                      MOTOR MANUFACTURER NAME

Definition: THE NAME OF THE MANUFACTURER OF THE MOTOR.

Reply Instructions: Enter the reply in clear text. (e.g., CDXDGCENTRAL ELECTRIC COMPANY\*)

ALL

CDXF                      A                      MOTOR FRAME IDENTIFICATION

Definition: THE SPECIFICATION, STANDARD, OR MANUFACTURERS IDENTIFICATION NUMBER AND/OR SYMBOL USED TO IDENTIFY THE MOTOR FRAME.

Reply Instructions: Enter the identification.

(e.g., CDXFAB-204\*)

ALL

CDXG                      J                      MOTOR MANUFACTURER IDENTIFYING  
NUMBER

Definition: THE NUMBER USED BY THE MANUFACTURER FOR IDENTIFYING THE MOTOR.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the number.

(e.g., CDXGJABW-8433415\*)

REPLY CODE

AB  
AC  
AD  
AE  
AK  
AF

REPLY (AG99)

DRAWING NO.  
MODEL NO.  
PART NO.  
SERIAL NO.  
STYLE NO.  
TYPE NO.

ALL\*

FIIG T  
Section Parts

APP  
Key

MRC

Mode Code

Requirements

CDXH

G

MOTOR SPECIAL SERVICE CLASSIFICATION

Definition: AN INDICATION OF THE SPECIAL SERVICE CLASSIFICATION OF THE MOTOR.

Reply Instructions: Enter the reply in clear text. (e.g., CDXHGN SPECIAL SERVICE CLASSIFICATION A\*)

ALL

AQZF

D

CONTROL TYPE

Definition: INDICATES THE TYPE OF CONTROL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQZFDADS\*)

REPLY CODE

ADS  
AAQ  
ADT  
ADW

REPLY (AL37)

ACROSS-LINE  
MAGNETIC  
REDUCED VOLTAGE  
RESISTOR

ALL

CDXJ

D

CONTROL INCLOSURE TYPE

Definition: INDICATES THE TYPE OF INCLOSURE PROVIDED TO COAT, COVER, PROTECT, OR ENCASE THE CONTROL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXJDCH\*)

REPLY CODE

CH  
AE

REPLY (AG85)

DRIPPROOF  
OPEN

ALL\*

AENC

A

PUMP QUANTITY

Definition: THE NUMBER OF PUMPS INCORPORATED IN THE ITEM.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Reply Instructions: Enter the quantity. (e.g., AENCA2\*)

NOTE FOR MRCS AKCV, AQGA, AND AQGB: REPLY TO MRC AKCV IF A REPLY IS ENTERED FOR MRC AENC. REPLY TO MRCS AQGA AND AQGB IF MANUFACTURER OF THE PUMP IS DIFFERENT THAN MANUFACTURER OF THE ITEM.

ALL\* (See Note Above)

AKCV	D	DRIVE TYPE
------	---	------------

Definition: INDICATES THE TYPE OF DRIVE FOR TURNING, ROTATING, OR POSITIONING THE MECHANISM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKCVDLH\*)

<u>REPLY CODE</u>	<u>REPLY (AG25)</u>
LH	PURIFIER MOTOR
LJ	SEPARATE MOTOR

ALL\* (See Note Preceding MRC AKCV)

AQGA	G	MANUFACTURER NAME
------	---	-------------------

Definition: THE NAME OF THE MANUFACTURER.

Reply Instructions: Enter the reply in clear text. (e.g., AQGAGTHE DE LAVAL SEPARATOR CO\*)

ALL\* (See Note Preceding MRC AKCV)

AQGB	A	MANUFACTURER IDENTIFYING NUMBER
------	---	---------------------------------

Definition: THE NUMBER USED BY THE MANUFACTURER FOR IDENTIFYING THE ITEM.

Reply Instructions: Enter the number. (e.g., AQGBATYPE 66A\*)



**SECTION: D**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED22569\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDALC000\*; MATLDALC000\$DCU0000\*; MATLDALC000\$DCU0000\*)

ALL

ABSX	D	ATTACHMENT METHOD
------	---	-------------------

Definition: THE MEANS USED TO ATTACH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABSXDAK\*)

<u>REPLY CODE</u>	<u>REPLY (AB47)</u>
AK	BOLTED
AB	CLAMP

ALL

ABMW	L	PERIPHERAL SHAPE STYLE
------	---	------------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONGIFURATION THAT MOST NEARLY CORRESPONDS TO THE PERIPHERAL SHAPE OF THE ITEM.

Reply Instructions: Enter the applicable style number from [Appendix B](#), Reference Drawing Group A. (e.g., ABMWL31\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

---

ALL

AAGR                      L                      CROSS-SECTIONAL SHAPE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE CROSS-SECTIONAL SHAPE OF THE ITEM.

Reply Instructions: Enter the applicable style number from [Appendix B](#), Reference Drawing Group B. (e.g., AAGRL1\*)

ALL\*

CDXK                      J                      MOUNTING HOLE TYPE AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF MOUNTING HOLES PROVIDED IN OR ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., CDXKJRC1\*; CDXKJET2\$\$JEW2\*)

<u>REPLY CODE</u>	<u>REPLY (AA78)</u>
RC	COUNTERBORED
HG	COUNTERSUNK
RD	DIMPLED
ET	PLAIN
EW	THREADED

NOTE FOR MRCS ABUJ AND ADQK: REPLY TO MRC ABUJ IF REPLY CODE EW IS ENTERED FOR MRC CDXK. REPLY TO MRC ADQK IF A REPLY IS ENTERED FOR MRC CDXK.

ALL\* (See Note Above)

ABUJ                      A                      THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the size.

(e.g., ABUJA1/4-20\*)

ALL\* (See Note Preceding MRC ABUJ)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	ADQK	L	MOUNTING OPENING SHAPE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE MOUNTING OPENING.

Reply Instructions: Enter the applicable style number from [Appendix B](#), Reference Drawing Group C. (e.g., ADQKL1\*)

ALL

CDXL	D	FLUID FILTER ELEMENT RETAINER
------	---	-------------------------------

Definition: AN INDICATION OF WHETHER OR NOT A FLUID FILTER ELEMENT RETAINER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXLDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T  
Section Parts

**SECTION: E**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED22570\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDAL0000\*; MATLDAL0000\$DBR0000\*; MATLDAL0000\$DBR0000\*)

ALL\*

CDXM	D	INLET PORT TYPE
------	---	-----------------

Definition: INDICATES THE TYPE OF INLET PORT PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXMDAD\*)

<u>REPLY CODE</u>	<u>REPLY (AH98)</u>
AD	FLANGE
BC	PLAIN HOLE
BD	THREADED FEMALE, GASKET SEAL
BE	THREADED FEMALE, INVERTED FLARE
BF	THREADED FEMALE, PLAIN
BG	THREADED MALE, REGULAR FLARE

NOTE FOR MRCS ARNX, ACTJ, ACRD, ACRG, ACRH, CDXP, AND ARNM: IF REPLY CODE AD IS ENTERED FOR MRC CDXM, REPLY TO MRCS ACRD AS APPLICABLE, ACRG AS APPLICABLE, ACRH AS APPLICABLE, CDXP AND ARNM. IF REPLY CODE BD OR BF IS ENTERED FOR MRC CDXM, REPLY TO MRC ARNX. IF REPLY CODE BE OR BG IS ENTERED FOR MRC CDXM, REPLY TO MRCS ARNX AND ACTJ.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL\* (See Note Above)

ARNX                      D                      INLET THREAD SERIES DESIGNATOR

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH AND THE NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE APPLIED TO A SERIES OF SPECIFIC DIAMETERS OF AN INLET.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARNXDNF\*)

<u>REPLY</u> <u>CODE</u>	<u>REPLY (AH06)</u>	<u>APPLICABLE</u> <u>SUBREQUIREMENTS</u>
AN	ANPT	CRHS,ACRX
SM	ISO M	CRHS,CTPK or CTPM or CDXN,ACRX
SS	ISO S	CRHS,CTPK or CTPM or CDXN,ACRX
EM	M(METRIC)	CRHS,CTPK,CTPM
MJ	MJ(METRIC J SERIES)	CRHS,CTPK,CTPM
NG	NGO	CRHS,ACRX
SF	NPSF	CRHS,ACRX
PS	NPSI	CRHS,ACRX
PM	NPSM	CRHS,ACRX
NP	NPT	CRHS,ACRX
NT	NPTF	CRHS,ACRX
UN	UN	CRHS,CRJG,ACRW,ACRX
NC	UNC	CRHS,ACRW,ACRX
NE	UNEF	CRHS,ACRW,ACRX
NF	UNF	CRHS,ACRW,ACRX
NJ	UNJ	CRHS,CRJG,ACRW,ACRX
JF	UNJF	CRHS,ACRW,ACRX
NS	UNS	CRHS,CRJG,ACRW or CDXN,ACRX

ALL\* (See Note Preceding MRC ARNX)

CRHS                      J                      INLET NOMINAL THREAD SIZE

Definition: DESIGNATES THE NOMINAL THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF AN INLET THREADED HOLE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CRHSJA0.250\*; CRHSJL6.4\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
ALL* (See Note Preceding MRC ARNX)			
	CRJG	A	INLET THREAD QUANTITY PER INCH
Definition: THE NUMBER OF SCREW THREADS ON THE INLET PER LINEAR INCH, INCLUDING INCOMPLETE THREADS ON A LINE PARALLEL TO THE THREAD AXIS.			
Reply Instructions: Enter the quantity per inch. (e.g., CRJGA16*; CRJGA11-1/2*)			
ALL* (See Note Preceding MRC ARNX)			
	CTPK	B	INLET THREAD PITCH IN MILLIMETERS
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS, EXPRESSED IN MILLIMETERS.			
Reply Instructions: Enter the numeric value. (e.g., CTPKB1.25*)			
ALL* (See Note Preceding MRC ARNX)			
	ACRW	A	INLET THREAD CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.			
Reply Instructions: Enter the class. (e.g., ACRWA3B*)			
ALL* (See Note Preceding MRC ARNX)			
	CTPM	J	INLET THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.			
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the designator. (CTPMJNTE6G*)			

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
		EXT	EXTERNAL
		NTE	INTERNAL

ALL\* (See Note Preceding MRC ARNX)

CDXN                      J                      INLET THREAD PITCH DIAMETER

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF THE INLET STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., CDXNJAP0.2157/P0.2195\*; CDXNJLP5.4/P5.5\*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL\* (See Note Preceding MRC ARNX)

ACRX                      D                      INLET THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACRXDL\*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

ALL\* (See Note Preceding MRC ARNX)

ACTJ                      B                      INLET SEAT ANGLE IN DEG

Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.

FIIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

---

Reply Instructions: Enter the numeric value. (e.g., ACTJB37.0\*)

ALL\* (See Note Preceding MRC ARNX)

ACRD                      J                      INLET FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE INLET FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRDJAA6.000\*; ACRDJLA24.5\*; ACRDJAB5.975\$\$JAC6.025\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL\* (See Note Preceding MRC ARNX)

ACRG                      J                      INLET FLANGE LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE INLET FLANGE, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRGJAA6.000\*; ACRGJLA24.5\*; ACRGJAB5.975\$\$JAC6.025\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B

REPLY (AC20)

NOMINAL  
MINIMUM



FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL\* (See Note Preceding MRC ARNX)

ACRH                      J                      INLET FLANGE WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE INLET FLANGE, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRHJAA4.000\*; ACRHJLA24.5\*; ACRHJAB3.975\$\$JAC4.025\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL\* (See Note Preceding MRC ARNX)

CDXP                      D                      INLET FLANGE RAISED FACE FEATURE

Definition: AN INDICATION OF WHETHER OR NOT AN INLET FLANGE RAISED FACE FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXPDC\*)

REPLY CODE

B  
C

REPLY (AA49)

INCLUDED  
NOT INCLUDED

ALL\* (See Note Preceding MRC ARNX)

ARNM                      J                      INLET FLANGE MOUNTING PROVISION AND  
QUANTITY

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

---

Definition: THE TYPE AND NUMBER OF INLET FLANGE MOUNTING PROVISIONS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., ARNMJGG2\*)

<u>REPLY CODE</u>	<u>REPLY (AB89)</u>
GY	HOLES
GG	STUDS

NOTE FOR MRCS ARNN, ARNQ, ARNT, AND ARNP: REPLY TO MRCS ARNN OR ANRQ AND ARNT IF REPLY CODE GY IS ENTERED FOR MRC ARNM. REPLY TO MRCS ARNQ, ARNT, AND ARNP IF REPLY CODE GG IS ENTERED FOR MRC ARNM.

ALL\* (See Note Above)

ARNN	J	INLET FLANGE MOUNTING HOLE DIAMETER
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Definition: THE LENGTH OF A STRAIGHT LINE PASSING THROUGH THE CENTER OF AN INLET FLANGE MOUNTING HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ARNNJAA0.375\*; ARNNJLA24.5\*; ARNNJAB0.370\$\$JAC0.380\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ARNN)

ARNQ	A	INLET FLANGE MOUNTING PROVISION THREAD SIZE
------	---	--

FIIG T  
Section Parts

APP  
Key

MRC

Mode Code

Requirements

---

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE INLET FLANGE MOUNTING PROVISION.

Reply Instructions: Enter the size.

(e.g., ARNQA1/4-28\*)

ALL\* (See Note Preceding MRC ARNN)

ARNT

G

INLET FLANGE MOUNTING PROVISION  
SPACING

Definition: THE SPACING OF THE INLET FLANGE MOUNTING PROVISION.

Reply Instructions: Enter the reply in clear text. (e.g., ARNTG2.375 IN. BY 2.375 IN. BETWEEN CENTERS\*)

ALL\* (See Note Preceding MRC ARNN)

ARNP

J

INLET FLANGE MOUNTING STUD LENGTH

Definition: A MEASUREMENT OF THE LONGEST, DIMENSION OF AN INLET FLANGE MOUNTING STUD, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ARNPJAA1.500\*; ARNPJLA24.5\*; ARNPJAB1.475\$\$JAC1.525\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL\*

CDXQ

D

OUTLET PORT TYPE

FIIG T  
Section Parts

APP									
Key	MRC	Mode Code	Requirements						

---

Definition: INDICATES THE TYPE OF OUTLET PORT PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXQDAD\*; CDXQDAD\$DBC\*)

<u>REPLY CODE</u>	<u>REPLY (AH98)</u>
AD	FLANGE
BC	PLAIN HOLE
BD	THREADED FEMALE, GASKET SEAL
BE	THREADED FEMALE, INVERTED FLARE
BF	THREADED FEMALE, PLAIN
BG	THREADED MALE, REGULAR FLARE

NOTE FOR MRCS ARTX, CDXT, CDXW, BHCQ, BHCP, CDXX, AND ARTM: IF REPLY CODE AD IS ENTERED FOR MRC CDXQ, REPLY TO MRCS CDXW AS APPLICABLE, BHCQ AS APPLICABLE, BHCP AS APPLICABLE, CDXX, AND ARTM. IF REPLY CODE BD OR BF IS ENTERED FOR MRC CDXQ, REPLY TO MRC ARTX. IF REPLY CODE BE OR BG IS ENTERED FOR MRC CDXQ, REPLY TO MRCS ARTX AND CDXT.

ALL\* (See Note Above)

ARTX	D	OUTLET THREAD SERIES DESIGNATOR
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Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH AND THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A SERIES OF DIAMETERS OF AN OUTLET.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTXDNF\*)

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>	<u>APPLICABLE SUBREQUIREMENTS</u>
AN	ANPT	CSJD,ARTY
SM	ISO M	CSJD,CXBR or CWMN or CDXS,ARTY
SS	ISO S	CSJD,CXBR or CWMN or CDXS,ARTY
EM	M (METRIC)	CSJD,CXBR,CWMN
MJ	MJ (METRIC J SERIES)	CSJD,CXBR,CWMN
NG	NGO	CSJD,ARTY
SF	NPSF	CSJD,ARTY
PS	NPSI	CSJD,ARTY
PM	NPSM	CSJD,ARTY

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements	
		NP	NPT	CSJD,ARTY
		NT	NPTF	CSJD,ARTY
		UN	UN	CSJD,BZSW,CDXR,ARTY
		NC	UNC	CSJD,CDXR,ARTY
		NE	UNEF	CSJD,CDXR,ARTY
		NF	UNF	CSJD,CDXR,ARTY
		NJ	UNJ	CSJD,BZSW,CDXR,ARTY
		JF	UNJF	CSJD,CDXR,ARTY
		NS	UNS	CSJD,BZSW,CDXR or CDXS,ARTY

ALL\*

CSJD                      J                      OUTLET NOMINAL THREAD SIZE

Definition: A DESIGNATION THAT IS USED FOR THE PURPOSE OF  
GENERAL IDENTIFICATION OF THE OUTLET THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by  
the numeric value. (e.g., CSJDJA0.250\*; CSJDJL6.4\*)

<u>REPLY CODE</u>
A
L

<u>REPLY (AA05)</u>
INCHES
MILLIMETERS

ALL\*

BZSW                      A                      OUTLET THREAD QUANTITY PER INCH

Definition: A MEASUREMENT OF THE NUMBER OF THREADS ON THE  
OUTLET PER LINEAR INCH, INCLUDING INCOMPLETE THREADS, ON A  
LINE PARALLEL TO THE THREAD AXIS.

Reply Instructions: Enter the quantity per inch.

(e.g., BZSWA16\*; BZSWA11-1/2\*)

ALL\*

CXBR                      B                      OUTLET THREAD PITCH IN MILLIMETERS

Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO  
ADJACENT OUTLET THREADS MEASURED PARALLEL TO THE THREAD  
AXIS, EXPRESSED IN MILLIMETERS.

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the numeric value. (e.g., CXBRB1.25*)			
ALL*			
	CDXR	A	OUTLET THREAD CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.			
Reply Instructions: Enter the thread class. (e.g., CDXRA3B*)			
ALL*			
	CWMN	J	OUTLET THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITIONS AND GRADES OF AN OUTLET THREAD.			
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the designator. (e.g., CWMNJNTE6G*)			
		<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
		EXT	EXTERNAL
		NTE	INTERNAL
ALL*			
	CDXS	J	OUTLET THREAD PITCH DIAMETER
Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF THE OUTLET STRAIGHT SCREW THREAD.			
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., CDXSJAP0.2157/P0.2195*; CDXSJLP5.4/P5.5*)			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
ALL*			

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	ARTY	D	OUTLET THREAD DIRECTION
Definition: THE DIRECTION OF THE OUTLET THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTYDL*)			
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
		L	LEFT-HAND
		R	RIGHT-HAND

ALL\* (See Note Preceding MRC ARTX)

CDXT            B            OUTLET SEAT ANGLE IN DEG

Definition: THE ANGLE OF THE OUTLET END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., CDXTB37.0\*)

ALL\* (See Note Preceding MRC ARTX)

CDXW            J            OUTLET FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE OUTLET FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDXWJAA6.000\*; CDXWJLA24.5\*; CDXWJAB5.975\$\$JAC6.025\*)

Table 1

<u>REPLY CODE</u>
A
L

<u>REPLY (AA05)</u>
INCHES
MILLIMETERS

Table 2

<u>REPLY CODE</u>
A
B

<u>REPLY (AC20)</u>
NOMINAL
MINIMUM

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL\* (See Note Preceding MRC ARTX)

BHCQ                      J                      OUTLET FLANGE LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE OUTLET FLANGE, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCQJAA6.000\*; BHCQJLA24.5\*; BHCQJAB5.975\$\$JAC6.025\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL\* (See Note Preceding MRC ARTX)

BHCP                      J                      OUTLET FLANGE WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE OUTLET FLANGE, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCPJAA2.180\*; BHCPJLA24.5\*; BHCPJAB2.170\$\$JAC2.185\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B

REPLY (AC20)

NOMINAL  
MINIMUM



FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL\* (See Note Preceding MRC ARTX)

CDXX                      D                      OUTLET FLANGE RAISED FACE FEATURE

Definition: AN INDICATION OF WHETHER OR NOT AN OUTLET FLANGE RAISED FACE FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXXDC\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL\* (See Note Preceding MRC ARTX)

ARTM                      J                      OUTLET FLANGE MOUNTING PROVISION  
AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF OUTLET FLANGE MOUNTING PROVISIONS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., ARTMJGG2\*)

<u>REPLY CODE</u>	<u>REPLY (AB89)</u>
GY	HOLES
GG	STUDS

NOTE FOR MRCS ARTN, ARTQ, ARTT, AND ARTP: REPLY TO MRCS ARTN OR ARTQ AND ARTT IF REPLY CODE GY IS ENTERED FOR MRC ARTM. REPLY TO MRCS ARTQ, ARTT AND ARTP IF REPLY CODE GG IS ENTERED FOR MRC ARTM.

ALL\* (See Note Above)

ARTN                      J                      OUTLET FLANGE MOUNTING HOLE  
DIAMETER

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code		Requirements				

---

Definition: THE LENGTH OF A STRAIGHT LINE PASSING THROUGH THE CENTER OF AN OUTLET FLANGE MOUNTING HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ARTNJAA0.375\*; ARTNJLA24.5\*; ARTNJAB0.370\$\$JAC0.380\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL\* (See Note Preceding MRC ARTN)

ARTQ	A								
									OUTLET FLANGE MOUNTING PROVISION THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE OUTLET FLANGE MOUNTING PROVISION.

Reply Instructions: Enter the size.

(e.g., ARTQA1/4 IN.-28\*)

ALL\* (See Note Preceding MRC ARTN)

ARTT	G								
									OUTLET FLANGE MOUNTING PROVISION SPACING

Definition: A MEASUREMENT OF THE SPACING OF THE OUTLET FLANGE MOUNTING PROVISION.

Reply Instructions: Enter the reply in clear text. (e.g., ARTTG2.375 IN. BY 2.375 IN. BETWEEN CENTERS\*)

ALL\* (See Note Preceding MRC ARTN)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	ARTP	J	OUTLET FLANGE MOUNTING STUD LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF AN OUTLET FLANGE MOUNTING STUD, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ARTPJAA1.500\*; ARTPJLA24.5\*; ARTPJAB1.490\$\$JAC1.505\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

CDXY                      D                      VALVE

Definition: AN INDICATION OF WHETHER OR NOT A VALVE(S) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDXYDB\*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

NOTE FOR MRC ASHM: REPLY TO MRC ASHM IF REPLY CODE B IS ENTERED FOR MRC CDXY.

ALL\* (See Note Above)

ASHM                      D                      VALVE TYPE

FIIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

---

Definition: INDICATES THE TYPE OF VALVE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASHMDAD\*)

<u>REPLY CODE</u>	<u>REPLY (AL80)</u>
AS	BYPASS
AD	CHECK
AR	RELIEF

ALL\*

ALBY	D	USAGE DESIGN
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Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALBYDARX\*)

<u>REPLY CODE</u>	<u>REPLY (AH21)</u>
ARX	DIRECT INTEGRAL CAVITY MOUNTING
ARY	ONE SEDIMENT BOWL
ARZ	TWO SEDIMENT BOWLS

NOTE FOR MRCS CDXZ AND CDYB: REPLY TO THESE MRCS IF REPLY CODE ARY OR ARZ IS ENTERED FOR MRC ALBY.

ALL\* (See Note Above)

CDXZ	J	BOWL MOUNTING HOLE DIAMETER
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Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BOWL MOUNTING HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDXZJAA4.000\*; CDXZJLA24.5\*; CDXZJAB3.990\$\$JAC4.010\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

---

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL\* (See Note Preceding MRC CDXZ)

CDYB                      D                      BOWL MOUNTING METHOD

Definition: THE MEANS OF ATTACHING THE BOWL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDYBDAAC\*)

REPLY CODE

AAC  
ABH  
ACS  
BGP

REPLY (AM39)

BOLT  
CLAMP  
THREAD  
TURNLOCK FASTENER

ALL

CDYC                      D                      MOUNTING BOLT HOLE

Definition: AN INDICATION OF WHETHER OR NOT A MOUNTING BOLT HOLE(S) IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDYCDB\*)

REPLY CODE

C  
B

REPLY (AB22)

NOT PROVIDED  
PROVIDED

NOTE FOR MRCS NMBR, AAUB, AND ABKG: REPLY TO THESE MRCS IF REPLY CODE B IS ENTERED FOR MRC CDYC.

ALL\* (See Note Above)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	NMBR	A	QUANTITY
Definition: A NUMERIC VALUE WHICH REPRESENTS A POSITIVE WHOLE VALUE WITHOUT REGARD TO ANY UNIT OF MEASURE.			
Reply Instructions: Enter the quantity. (e.g., NMBRA2*)			

ALL\* (See Note Preceding MRC NMBR)

AAUB            J            HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAUBJAA0.375\*; AAUBJLA24.5\*; AAUBJAB0.370\$\$JAC0.380\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL\* (See Note Preceding MRC NMBR)

ABKG            J            BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKGJAA3.000\*; ABKGJLA24.5\*; ABKGJAB2.990\$\$JAC3.010\*)

Table 1

REPLY CODE

A

REPLY (AA05)

INCHES

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		L	MILLIMETERS
		<u>Table 2</u> <u>REPLY CODE</u>	
		A	<u>REPLY (AC20)</u> NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

CDYD                      D                      FILTER ELEMENT

Definition: AN INDICATION OF WHETHER OR NOT A FILTER ELEMENT IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDYDDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS ADNG, ADNH, AND CDBH: REPLY TO MRCS ADNG AND APPLICABLE MRCS ADNH AND/OR CDBH IF REPLY CODE B IS ENTERED FOR MRC CDYD. FOR MRCS ADNH AND CDBH, IF A MICRON RATING IS AVAILABLE AND DOES NOT SPECIFY NOMINAL OR ABSOLUTE, ENTER THE MICRON RATING IN MRC CDBH.

ALL\* (See Note Above)

ADNG                      D                      FILTERING MATERIAL DESIGN

Definition: THE DESIGN OF THE FABRICATED FILTERING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., ADNGDAK\*; ADNGDAK\$\$DAN\*)

ALL\* (See Note Preceding MRC ADNG)

ADNH                      J                      FILTRATION RATING IN MICRONS

FIIG T  
Section Parts

APP									
Key	MRC		Mode Code						Requirements

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Definition: THE SIZE OF THE SMALLEST PARTICLE WHICH THE ELEMENT IS CAPABLE OF REMOVING FROM THE FLUID WHICH PASSES THROUGH THE FILTERING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ADNHJA10.0\*; ADNHJB9.5\$\$JC10.5\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ADNHKN\*)

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ADNG)

CDBH	B	ABSOLUTE FILTRATION RATING IN MICRONS
------	---	---------------------------------------

Definition: THE ABSOLUTE SIZE OF THE PARTICLE WHICH THE ELEMENT IS CAPABLE OF REMOVING FROM THE FLUID WHICH PASSES THROUGH THE FILTERING MATERIAL.

Reply Instructions: Enter the numeric value. (e.g., CDBHB20.0\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., CDBHKN\*)

NOTE FOR MRCS ADAV, ABHP, ABMK, AND ABKW: REPLY TO MRCS ADAV AND ABKW FOR CIRCULAR ITEMS. REPLY TO MRCS ABHP, ABMK, AND ABKW FOR OTHER THAN CIRCULAR ITEMS .

ALL\* (See Note Above)

ADAV	J	OVERALL DIAMETER
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Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA2.330\*; ADAVJLA24.5\*; ADAVJAB2.310\$\$JAC2.350\*)



FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL\* (See Note Preceding MRC ADAV)

ABHP                      J                      OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA4.000\*; ABHPJLA24.5\*; ABHPJAB3.975\$\$JAC4.025\*)

	<u>Table 1</u>	
	<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
	A	INCHES
	L	MILLIMETERS
	<u>Table 2</u>	
	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
	A	NOMINAL
	B	MINIMUM
	C	MAXIMUM

ALL\* (See Note Preceding MRC ADAV)

ABMK                      J                      OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FRM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA3.000\*; ABMKJLA24.5\*; ABMKJAB2.975\$\$JAC3.025\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL\* (See Note Preceding MRC ADAV)

ABKW            J            OVERALL HEIGHT

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA2.500\*; ABKWJLA24.5\*; ABKWJAB2.490\$\$JAC2.510\*)

<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

**SECTION: STANDARD**

APP

Key MRC Mode Code Requirements

ALL\*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP\*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE\*)

ALL\*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321\*;

TESTJA1234A-654321\$\$JB5556A-663654\*;

TESTJAA2345-654321\$JB55566-663654\*)

REPLY  
CODE

REPLY (AC28)

- |   |  |
|---|--|
| A | SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.) |
| B | STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)   |

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Section Parts

APP

Key	MRC	Mode Code	Requirements
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		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
--	--	---	---

ALL\*

SPCL	G	SPECIAL TEST FEATURES	
------	---	-----------------------	--

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS\*)

ALL\*

ZZZK	J	SPECIFICATION/STANDARD DATA	
------	---	-----------------------------	--

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B\*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/\*;

ZZZKJP80205-NAS1103\*;

ZZZKJS81349-MIL-C-1140C/CE/\*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103\*)

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APP

Key    MRC            Mode Code    Requirements

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<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL\* (See Note Above)

ZZZT            J            NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1\*; ZZZTJTY1\$JSTA\*; ZZZTJTY1\$JSTA\*)

ALL\*

ZZZW            G            DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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---

ALL\*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
------	---	---------------------------------

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL\*)

ALL\*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS\*; ZZZYGAS DIFFERENTIATED BY MATERIAL\*)

ALL\*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL\*; CRTLAMATL\$\$ASURF\*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL\* (See Note Above)

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

PRPY	A	PROPRIETARY CHARACTERISTICS
------	---	-----------------------------

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS\*; PRPYANPAC\*; PRPYAMATL\$ASURF\*

ALL\*

ELRN	G	EXTRA LONG REFERENCE NUMBER
------	---	-----------------------------

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365\*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL\*

ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION
------	---	---------------------------------------

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA\*)

REPLY  
CODE

REPLY (AN58)

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD



FIIG T  
Section Parts

**SECTION: SUPPTECH**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

CBME	J	CUBIC MEASURE
------	---	---------------

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCF1.0219\*)

<u>REPLY CODE</u>
CF
CM

<u>REPLY (AN76)</u>
CUBIC FEET
CUBIC METERS

ALL

SUPP	G	SUPPLEMENTARY FEATURES
------	---	------------------------

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT\*)

ALL

FCLS	A	FUNCTIONAL CLASSIFICATION
------	---	---------------------------

Definition: THE ALPHA-NUMERIC DESIGNATION THAT IDENTIFIES THE CLASSIFICATION OF THE ITEM ACCORDING TO THE CATEGORY OF FUNCTIONS PERFORMED.

Reply Instructions: Enter the reply from the applicable document.

(e.g., FCLSAHH-1.5\*)

ALL

FTLD	G	FUNCTIONAL DESCRIPTION
------	---	------------------------

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

Definition: DESCRIBES THE CAPABILITIES, INTENDED USE, AND/OR PURPOSE FOR WHICH THE ITEM IS PROVIDED.

Reply Instructions: Enter description of function as concisely as possible. (e.g., FTLDGUSED TO INSTALL/REMOVE ENGINE NACELLE\*)

ALL

TMDN	A	TYPE/MODEL DESIGNATION
------	---	------------------------

Definition: THE ALPHA-NUMERIC-ALPHA DESIGNATION USED TO IDENTIFY THE TYPE AND/OR MODEL OF THE BASIC ITEM.

Reply Instructions: Enter the appropriate designation data.

(e.g., TMDNAMS-615/M\*)

ALL

RTSE	G	RELATIONSHIP TO SIMILAR EQUIPMENT
------	---	-----------------------------------

Definition: INDICATES THE RELATIONSHIP, SUCH AS CONSTRUCTION, CAPABILITIES, AND THE LIKE, OF THE ITEM TO A SIMILAR ITEM.

Reply Instructions: Enter concise statement for similar item including name and identifying data.

(e.g., RTSEGSIMILAR TO LOCKHEED OVERWING ENGINE HOIST P/N 61521-58\*)

ALL

RDAL	G	REFERENCE DATA AND LITERATURE
------	---	-------------------------------

Definition: LITERATURE AND REFERENCES AVAILABLE FOR INFORMATION PERTAINING TO THE ITEM.

Reply Instructions: Enter data appropriate and in a concise manner to identify informational references covering the item.

(e.g., RDALGNAVAIROIA/VFK58 A-2.2.9\*)

ALL

NTRD	A	ENTRY DATE
------	---	------------

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

Definition: INDICATE THE DATE THE ITEM WAS ENTERED INTO MIL-HDBK-300.

Reply Instructions: Enter the date structured in three hyphenated 2 position segments to indicate the last 2 digits of the calendar year, month, and day.

(e.g., NTRDA80-05-28\*)

ALL

ZZZV	G	FSC APPLICATION DATA
------	---	----------------------

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGBEARINGS,ANTIFRICTION,UNMOUNTED\*)

ALL

AGAV	G	END ITEM IDENTIFICATION
------	---	-------------------------

Definition: THE NATIONAL STOCK NUMBER OF THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000\*;

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A\*)

ALL

CXCY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY
------	---	--

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD\*)

FIG T  
Section Parts

FIG T  
Section Parts

[Blank Page]

## Reply Tables

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Table 2 - FILTERING MATERIAL DESIGNS .....	93
Table 3 - NONDEFINITIVE SPEC/STD DATA .....	94

Table 1 - MATERIALS  
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BSB000	ALUMINA, ACTIVATED (INCL ALUMINUM OXIDE)
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL1548	ALUMINUM ALLOY, AMS 4212
AL0530	ALUMINUM ALLOY, AMS 4214
AL0202	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T4
AL0130	ALUMINUM ALLOY, QQ-A-225/6
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0334	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T4
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
AL0160	ALUMINUM ALLOY, QQ-A-601, ALLOY 356, TEMPER T6
AL0177	ALUMINUM ALLOY 2014, T6
ALA000	ALUMINUM BRONZE
ABA000	ALUMINUM OXIDE
A	ANY ACCEPTABLE
AS0000	ASBESTOS
BR0000	BRASS
BR0084	BRASS, QQ-B-613, ALLOY 260, HARD
BN0000	BRONZE
CAA000	CARBON, POROUS
CSA000	CELLULOSE
CJ0000	CERAMIC
CY0000	CHARCOAL
CU0000	COPPER
KN0000	COPPER NICKEL ALLOY
CUAB00	COPPER-NICKEL PLATED
CUH000	COPPER SILICON ALLOY
CC0000	COTTON
EAA000	EARTH, DIATOMACEOUS
EAB000	EARTH, FULLERS
FA0000	FABRIC
FAB000	FABRIC, NYLON
FT0000	FELT
FTA000	FELT, WOOL
FBF000	FIBER, SISAL
FBG000	FIBER, VISCOSE
FBH000	FIBER, WOOD
FG0000	FIBERGLASS
DFJ000	FLANNEL
GS0000	GLASS
GSM000	GLASS FIBER
MEF000	GUNMETAL
FE0000	IRON

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
FEA000	IRON, CAST
MGA000	MAGNESIUM ALLOY
ME0000	METAL
MW0000	MINERAL WOOL
NFF000	NICKEL ALLOY
NC0000	NICKEL COPPER ALLOY (Monel)
PF0000	PAPER (Newsprint)
PC0000	PLASTIC
SM0000	SAND
SP0000	SAWDUST
ST0000	STEEL
ST3344	STEEL, AMS 5688
STB000	STEEL, CORROSION RESISTING
ST1615	STEEL, FED STD 66, AISI 303/SAE 30303
ST1617	STEEL, FED STD 66, AISI 304/SAE 30304
ST1621	STEEL, FED STD 66, AISI 316/SAE 30316
STAD00	STEEL, FORGED
ST2528	STEEL, MIL-S-7720, COMP 18-8
ST3976	STEEL, MIL-S-23195, COMP 304
ST1649	STEEL, QQ-S-763, CLASS 304
ST1654	STEEL, QQ-S-763, CLASS 316
STD000	STEEL, STAINLESS
SKA000	STONE, POROUS
SN0000	TIN
TB0000	TIN-BRASS
WL0000	WOOL
ZN0000	ZINC

Table 2 - FILTERING MATERIAL DESIGNS  
FILTERING MATERIAL DESIGNS

<u>REPLY CODE</u>	<u>REPLY (AC48)</u>
A	ANY ACCEPTABLE
AC	BELLOWS
AB	BLOCK
AJ	CORRUGATED
BR	COTTON BAG ENCASED
AK	CRIMPED WIRE
AL	KNITTED
AN	LAMINATED
AP	LOOSE PACKED
AQ	MESH (incl Wire Screen)
BS	METAL ENCASED
AR	MOLDED
AS	MULTIPLE STACKED DISKS
BT	PAPER ENCASED
AT	PERFORATED



<u>REPLY CODE</u>	<u>REPLY (AC48)</u>
CC	PERFORATED METAL
BW	PLASTIC ENCASED
AU	PLEATED
AW	RADIAL FINNED
AY	SINGLE STACKED DISKS
BX	SINGLE STAMPED DISK
BY	SINGLE STOCKED DISKS
AZ	SINTERED
BA	SPIRAL WOUND
BB	SPUN ROVING
BZ	STACKED DISK
BC	WIRE WOUND
CA	WIRE WOVEN
CB	WOOL BAG ENCASED
BD	WOVEN

Table 3 - NONDEFINITIVE SPEC/STD DATA  
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM

FIIG T384  
APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

**Reference Drawing Groups**

REFERENCE DRAWING GROUP A Tables ..... 98

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REFERENCE DRAWING GROUP B Tables ..... 109

REFERENCE DRAWING GROUP B ..... 110

REFERENCE DRAWING GROUP C Tables ..... 113

REFERENCE DRAWING GROUP C ..... 114

REFERENCE DRAWING GROUP A Tables  
PERIPHERAL SHAPES

INDEX OF MASTER REQUIREMENT CODES

1. Solid lines indicate mandatory characteristics, except where deviations are permitted by notes on the drawing or legend.
2. Broken lines indicate optional characteristics.
3. All bolt holes of the same type must be of the same size. Holes illustrated by solid lines are not restricted to shape. Holes portrayed by broken lines are not restricted to quantity illustrated.
4. Styles illustrated with optional corners may have round, square, or beveled corners, providing all corners are identical.
5. Style 4 must have at least one hole on each side and four (4) corner holes located on the corner radius of the centerline. Corner holes not to be considered as "first hole." If with one hole on each side, excluding corner holes, do not reply to MRC ADNY.
6. Styles 8, 9, 37, 38, 47, and 48 must have body radius MRC ADN<sub>X</sub> tangent to corner radius MRC ADN<sub>U</sub>.
7. Styles 13 and 14 must have straight line tangent to corner radius MRC ADN<sub>U</sub>. Must have five (5) or more corners.
8. Styles 15 and 16 must have five (5) or more mounting ears.
9. Styles 29 and 30 must have body radius MRC ADN<sub>X</sub> tangent to corner radius MRC ADN<sub>U</sub>. Must have five (5) or more corners. May have any number of holes providing they are located in the corners.
10. Styles 35 and 36 must have straight line tangent to body radius MRC ADN<sub>X</sub> and corner radius MRC ADN<sub>U</sub>.
11. Styles 45 through 50, all shapes must have three (3) holes equally spaced.
12. Style 45 must have straight line tangent to corner radius MRC ADN<sub>U</sub>.
13. Disregard replies to MRCs ADNY, ADN<sub>Z</sub>, ADPA, ADPB, ADPC, AND, ADPD when holes and/or ends are unequally spaced. Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA5.131\*; ABKVJLA24.5\*; ABKVJAB5.110\$JAC5.150\*)

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABGL	J	WIDTH
ABKG	J	BOLT CIRCLE DIAMETER
ABKV	J	OUTSIDE DIAMETER
ABRY	J	LENGTH
ADNU	J	CORNER RADIUS
ADNX	J	BODY RADIUS
ADNY	J	DISTANCE BETWEEN HOLES ALONG LENGTH
ADNZ	J	DISTANCE BETWEEN HOLES ALONG WIDTH
ADPA	J	DISTANCE BETWEEN HOLE CENTERLINE AND FIRST HOLE ALONG LENGTH
ADPB	J	DISTANCE BETWEEN HOLE CENTERLINE AND FIRST HOLE ALONG WIDTH
ADPC	J	DISTANCE FROM FIRST HOLE CENTERLINE TO END ALONG LENGTH
ADPD	J	DISTANCE FROM FIRST HOLE CENTERLINE TO END ALONG WIDTH
ADPE	J	CORNER BEVEL LENGTH
ADPF	J	INVERTED RADIUS
ADPG	J	EAR RADIUS
ADPK	J	CORNER HOLE CENTERLINE RADIUS
ADPL	J	EAR OFFSET DISTANCE FROM BODY CENTERLINE
AFQH	J	LOBE RADIUS
ASDB	J	WIDTH ACROSS FLATS
HGTH	J	HEIGHT

Enter the quantity. (e.g., ADNVA3\*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ADNV	A	HOLE QUANTITY ALONG LENGTH
ADNW	A	HOLE QUANTITY ALONG WIDTH
ADPH	A	EAR QUANTITY
ADPJ	A	CORNER QUANTITY
ADPM	A	BOLT CIRCLE HOLE QUANTITY

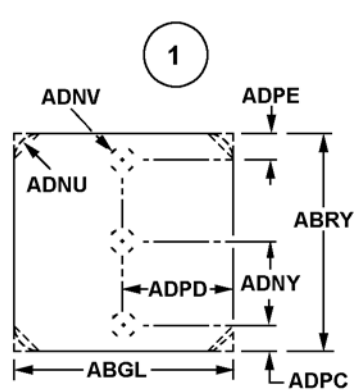
Enter the numeric value. If more than one angle, use AND/OR (\$\$/) Coding, entering replies for the largest angle first. (e.g., ABRGB120.0\*; ABRG1AB80.0\$B90.0\*; ABRG1BB40.0\$\$B60.0\*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
------------	------------------	--------------------------

ABRG	B	ANGLE BETWEEN CENTERLINES OF HOLES IN DEG
------	---	---

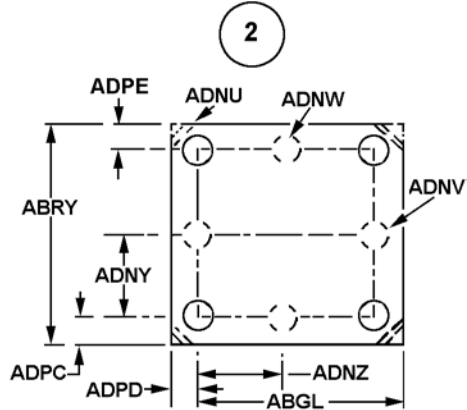
# REFERENCE DRAWING GROUP A

## PERIPHERAL SHAPES



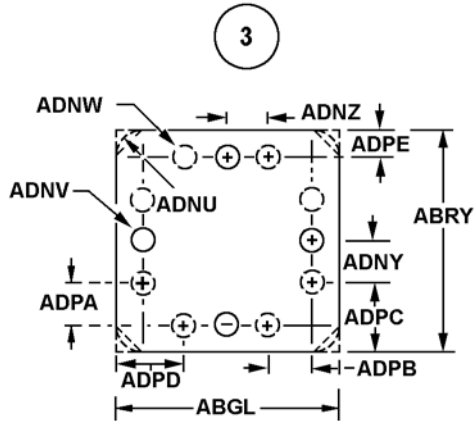
MAY HAVE HOLES, PROVIDING ALL HOLES ARE LOCATED ON SAME CENTERLINE

SQUARE OR RECTANGULAR



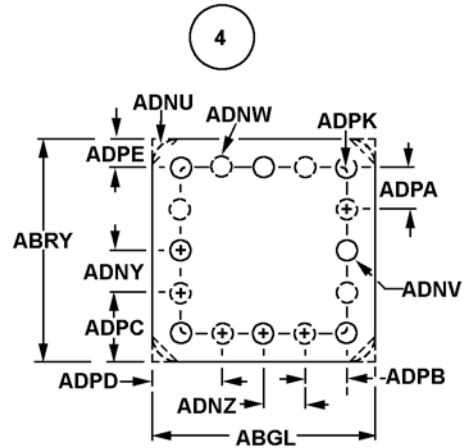
MUST HAVE AT LEAST FOUR (4) CORNER HOLES

SQUARE OR RECTANGULAR

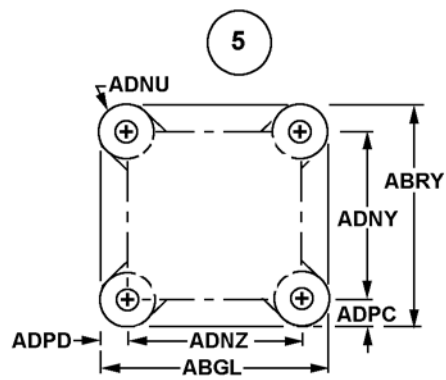


MUST HAVE AT LEAST FOUR (4) HOLES NOT LOCATED IN CORNERS

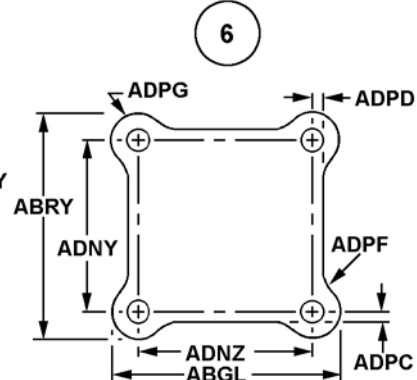
SQUARE OR RECTANGULAR



SQUARE OR RECTANGULAR

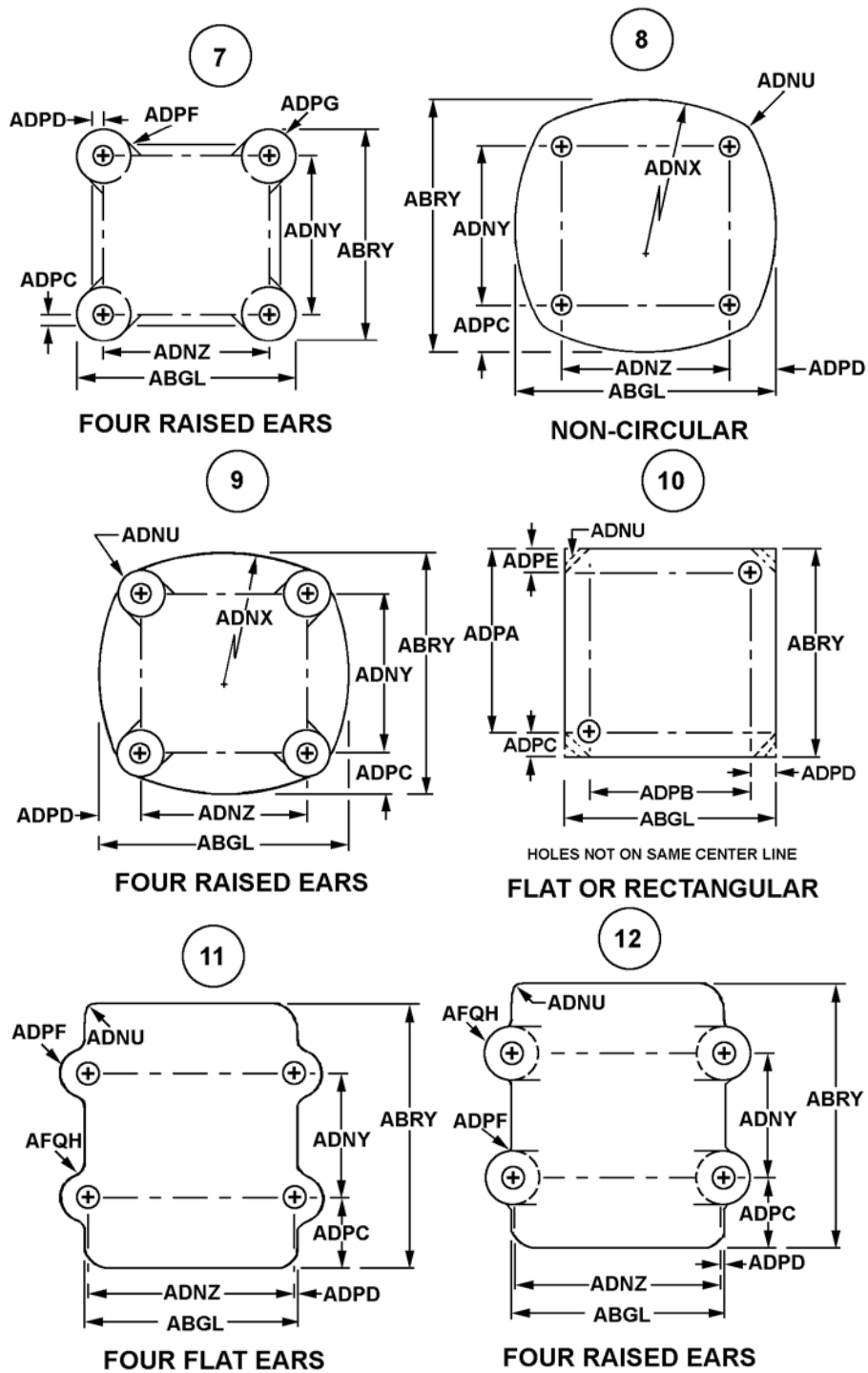


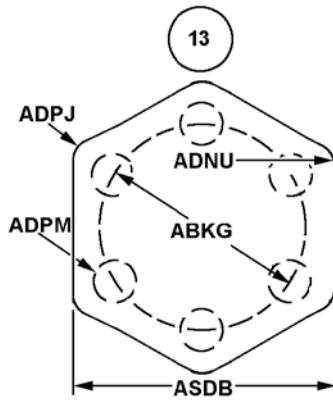
FOUR RAISED EARS



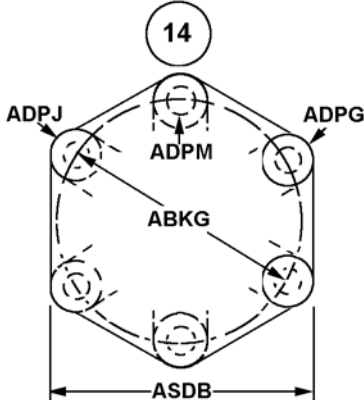
FOUR FLAT EARS



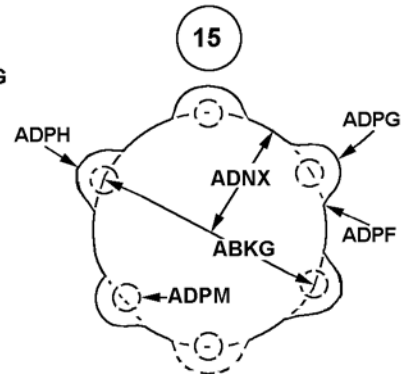




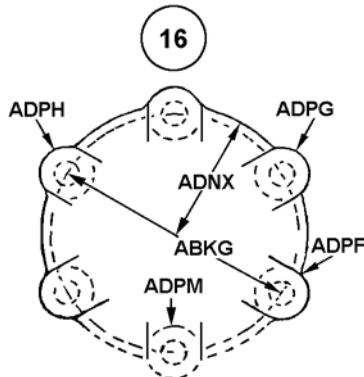
HEXAGON



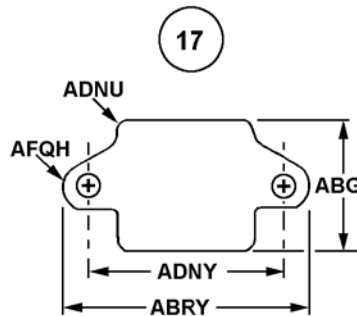
HEXAGON



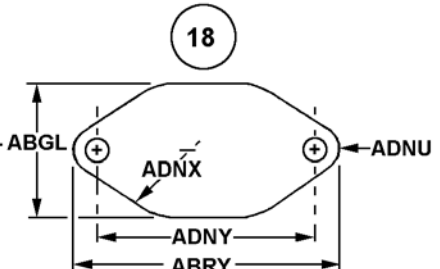
CIRCULAR W/ FLAT EARS



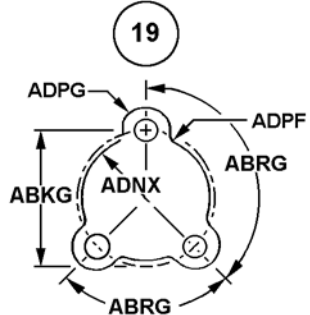
CIRCULAR W/ RAISED EARS



SPECIAL

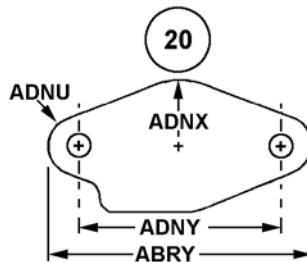


SPECIAL

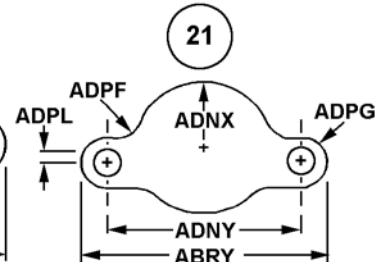


EARS MUST BE UNEQUALLY SPACED

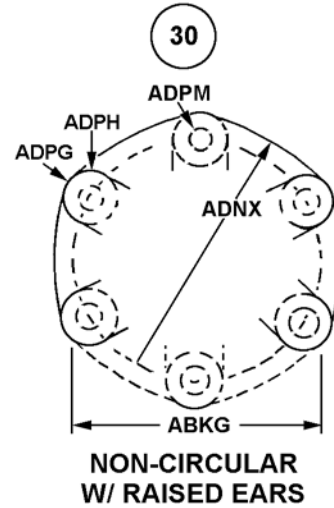
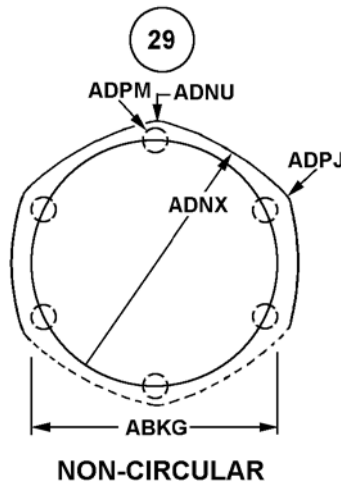
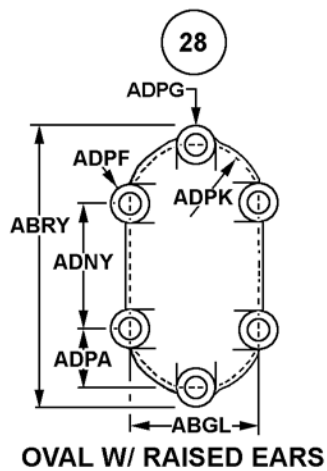
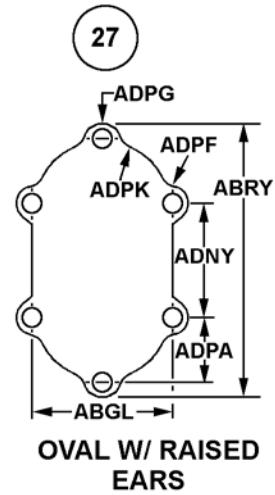
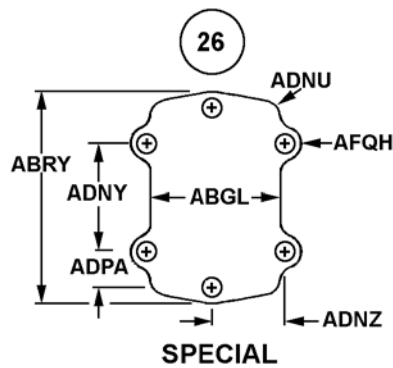
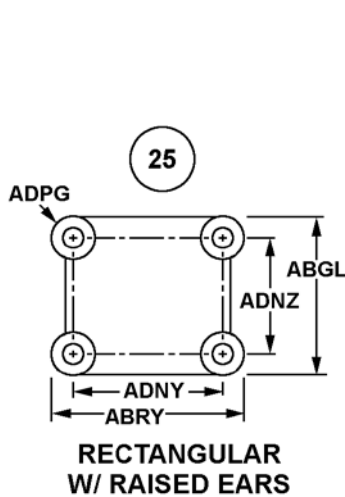
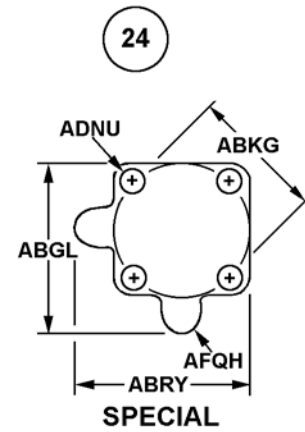
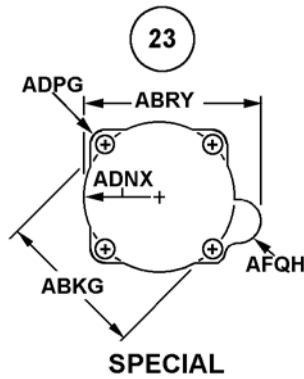
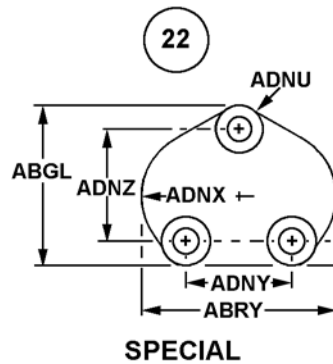
SPECIAL

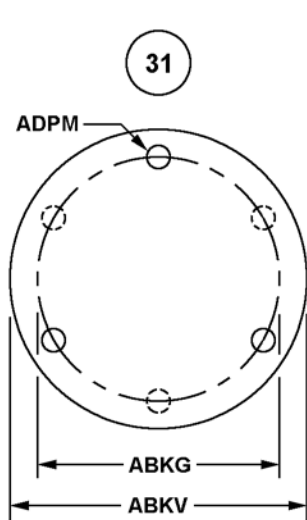


SPECIAL



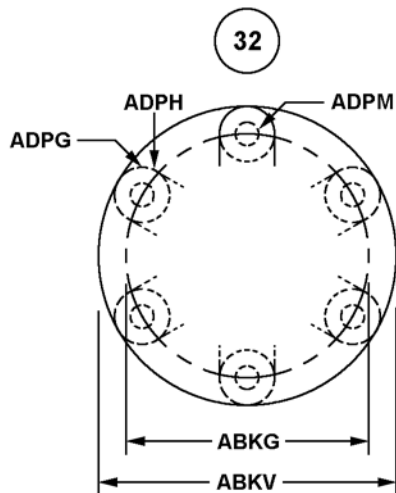
SPECIAL





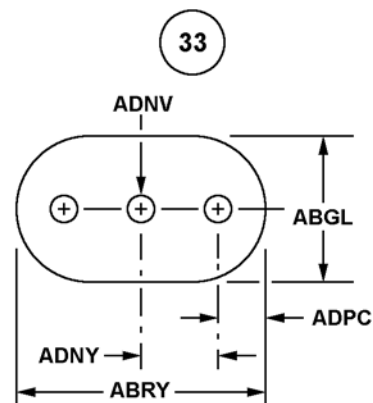
MUST HAVE THREE (3) OR MORE HOLES ON A BOLT CIRCLE

**CIRCULAR**



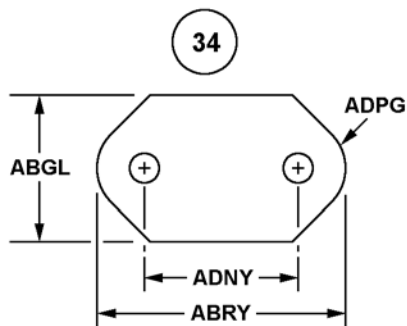
MUST HAVE ONE (1) OR MORE EARS.  
MAY HAVE ANY NUMBER OF HOLES.

**CIRCULAR  
W/RAISED EYES**

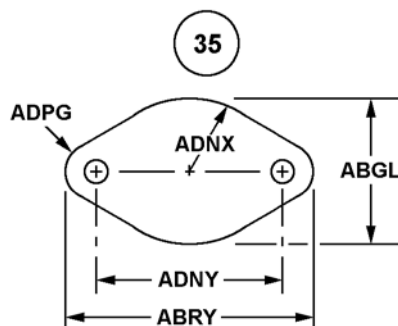


MAY HAVE ANY NUMBER OF HOLES  
PROVIDING ALL HOLES ARE LOCATED  
ON THE SAME CENTERLINE.

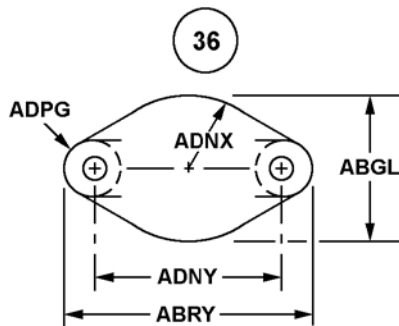
**OVAL**



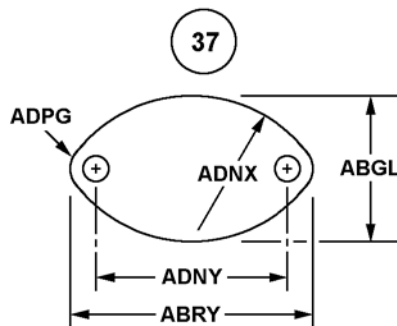
**SPECIAL W/TWO  
PERIPHERAL FLATS**



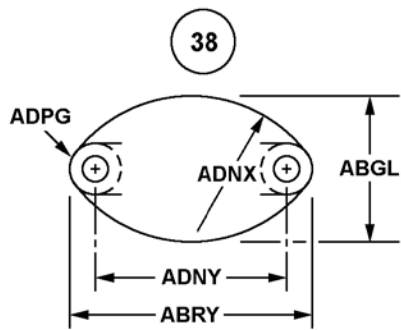
**DIAMOND**



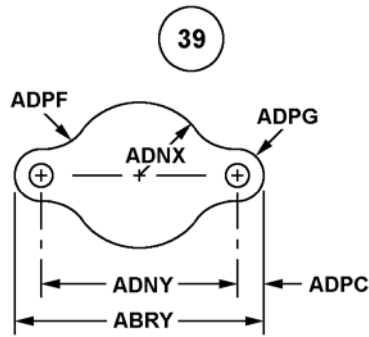
**DIAMOND W/RAISED EYES**



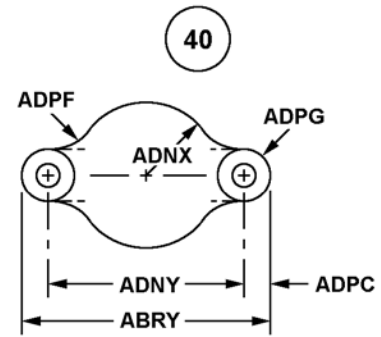
**ELLIPTICAL**



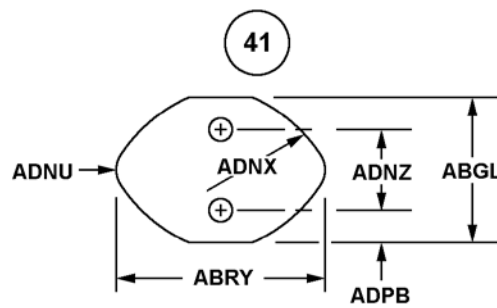
**ELLIPTICAL W/RAISED EYES**



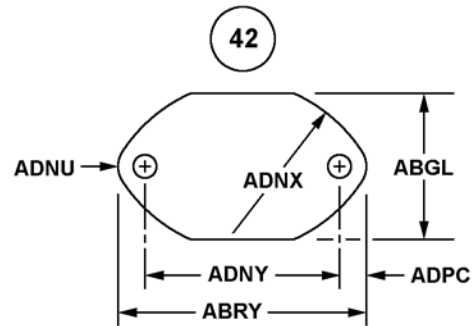
**SPECIAL W/FLAT EARS**



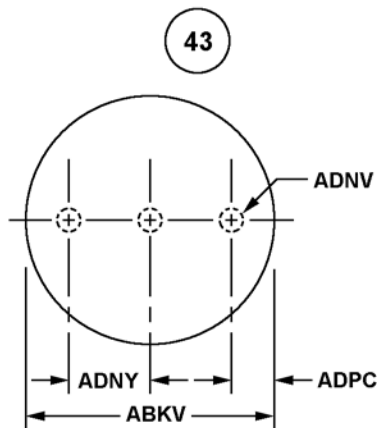
**SPECIAL W/RAISED EARS**



**SPECIAL**

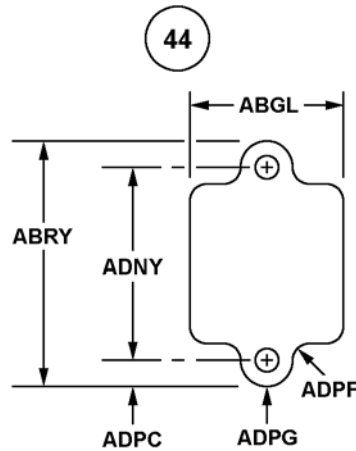


**ELLIPTICAL W/TWO PERIPHERAL FLATS**

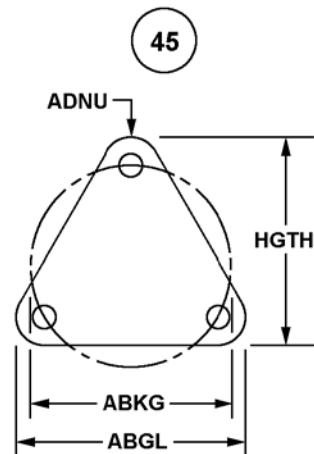


MAY HAVE ANY NUMBER OF HOLES ON ONE CENTERLINE

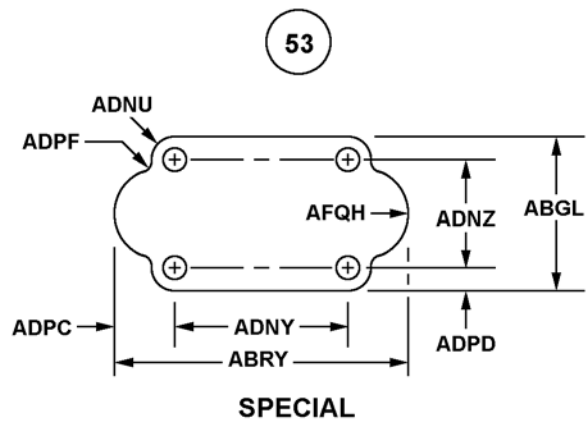
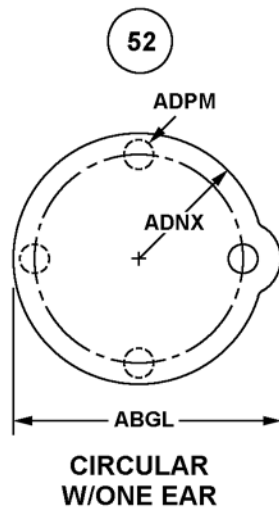
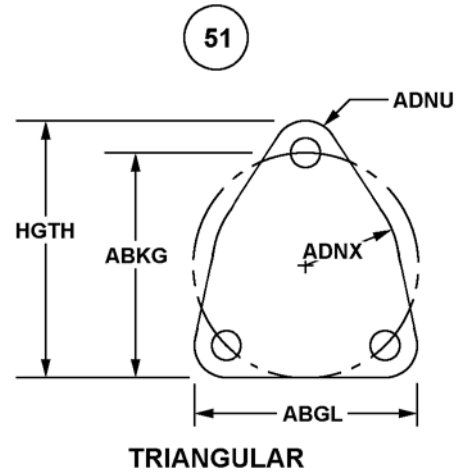
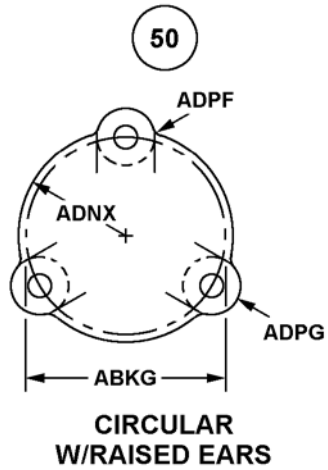
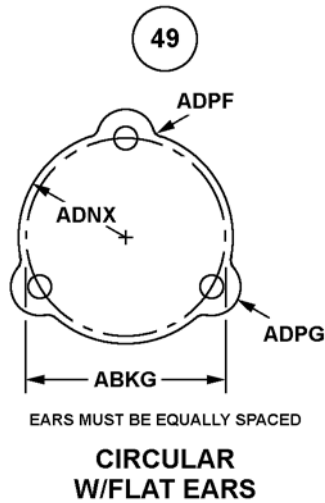
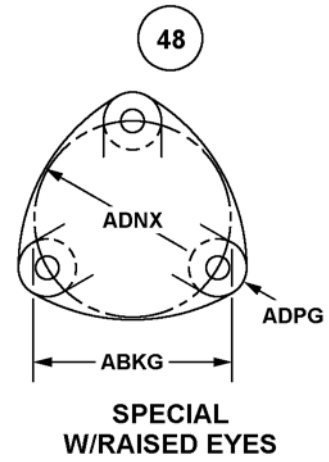
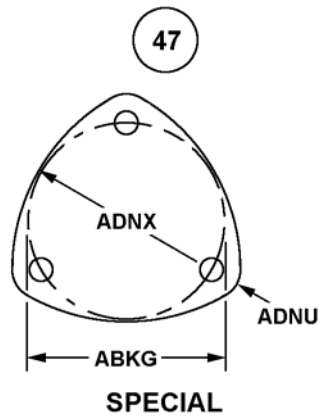
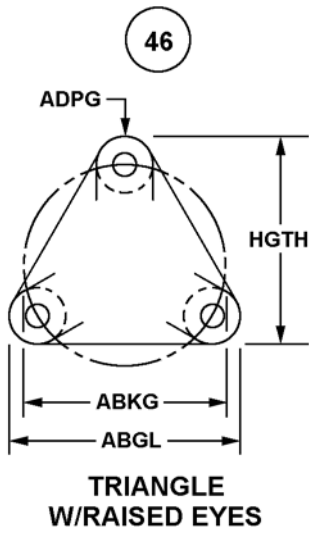
**CIRCULAR**

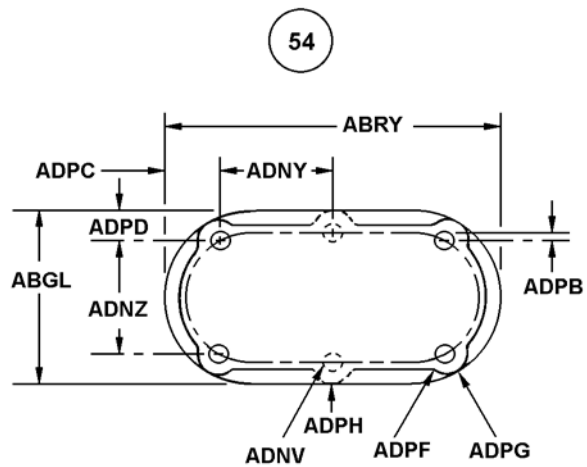


**RECTANGULAR OR SQUARE W/EARS**

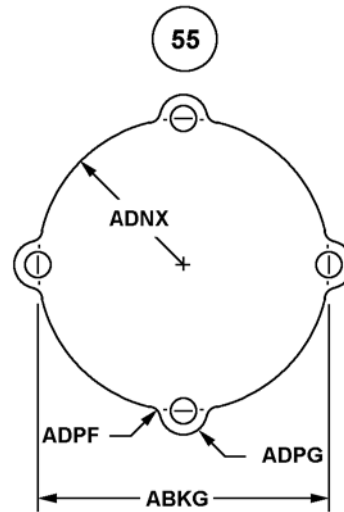


**TRIANGLE**

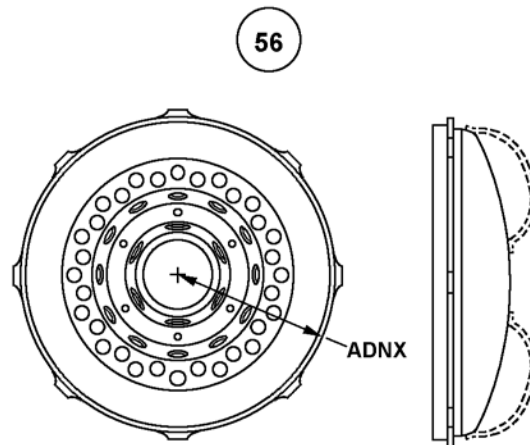




MUST HAVE FOUR (4) OR MORE MOUNTING EARS.  
MAY HAVE ANY NUMBER HOLES.  
OVAL



CIRCULAR  
W/FLAT EARS



CIRCULAR W/ LUGS

REFERENCE DRAWING GROUP B Tables  
CROSS-SECTIONAL SHAPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.  
(e.g., AARXJAA1.208\*; AARXJLA24.5\*; AARXJAB1.200\$\$JAC1.220\*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AARX	J	INSIDE DIAMETER
AAVL	J	PILOT DIAMETER
ABKU	J	FLANGE THICKNESS
ADPN	J	FIRST RECESS INSIDE HEIGHT
ADPP	J	SECOND RECESS INSIDE HEIGHT
ADPQ	J	INSIDE CORNER RADIUS
ADPR	J	BODY THICKNESS
ADPT	J	FIRST RECESS DIAMETER
ADPU	J	SECOND RECESS DIAMETER
ADPV	J	BODY SPHERICAL RADIUS
ADPW	J	OUTSIDE CORNER RADIUS
ADPX	J	BODY OUTSIDE RADIUS
ADPY	J	PILOT HEIGHT
ADPZ	J	SMALLEST CENTER TO CENTER DISTANCE
ADQA	J	LARGEST CENTER TO CENTER DISTANCE

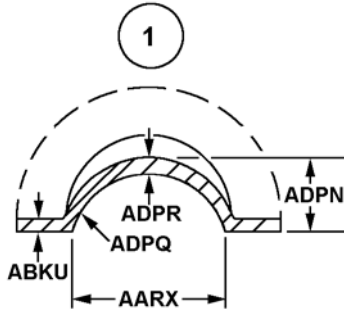
Enter the numeric value. (e.g., ADPSB15.0\*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ADPS	B	INSIDE ANGLE IN DEG

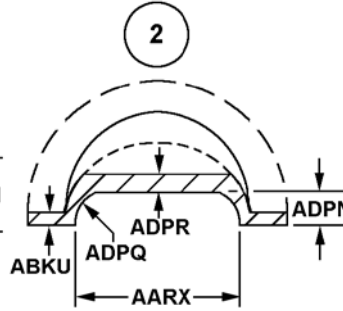


# REFERENCE DRAWING GROUP B

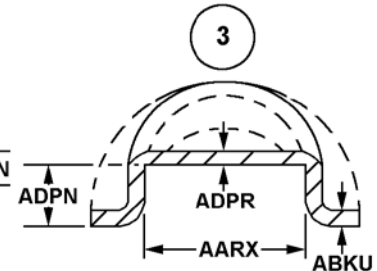
## CROSS-SECTIONAL SHAPES



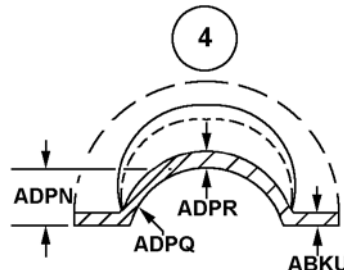
**SPHERICAL RECESS**



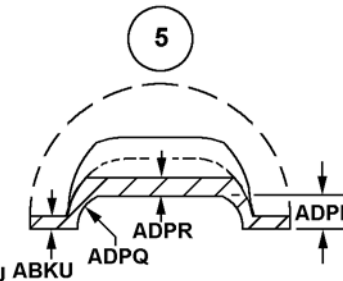
**CIRCULAR RECESS**



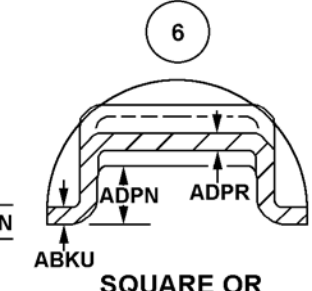
**CIRCULAR RECESS**



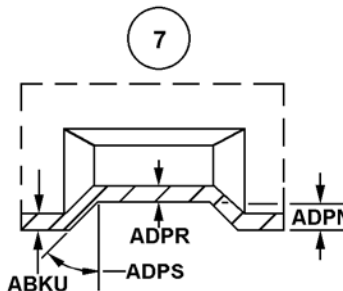
**OBLONG RECESS**



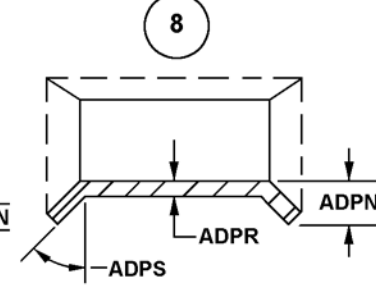
**OBLONG RECESS**



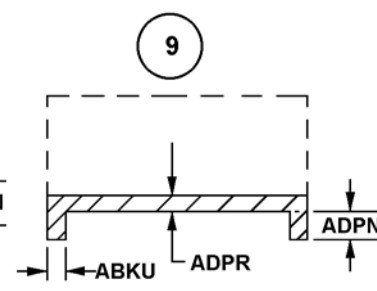
**SQUARE OR RECTANGULAR RECESS**



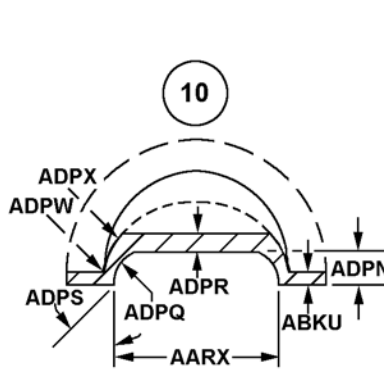
**SQUARE OR RECTANGULAR RECESS**



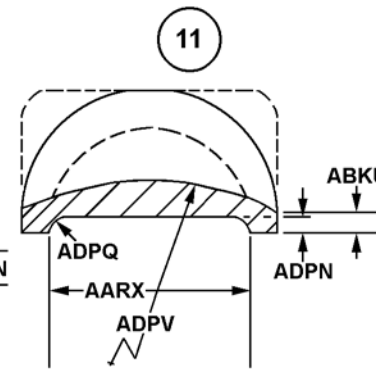
**SQUARE OR RECTANGULAR RECESS**



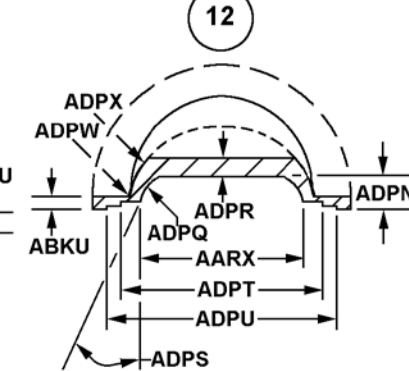
**RECESS SAME SHAPE AS THE PERIPHERY**



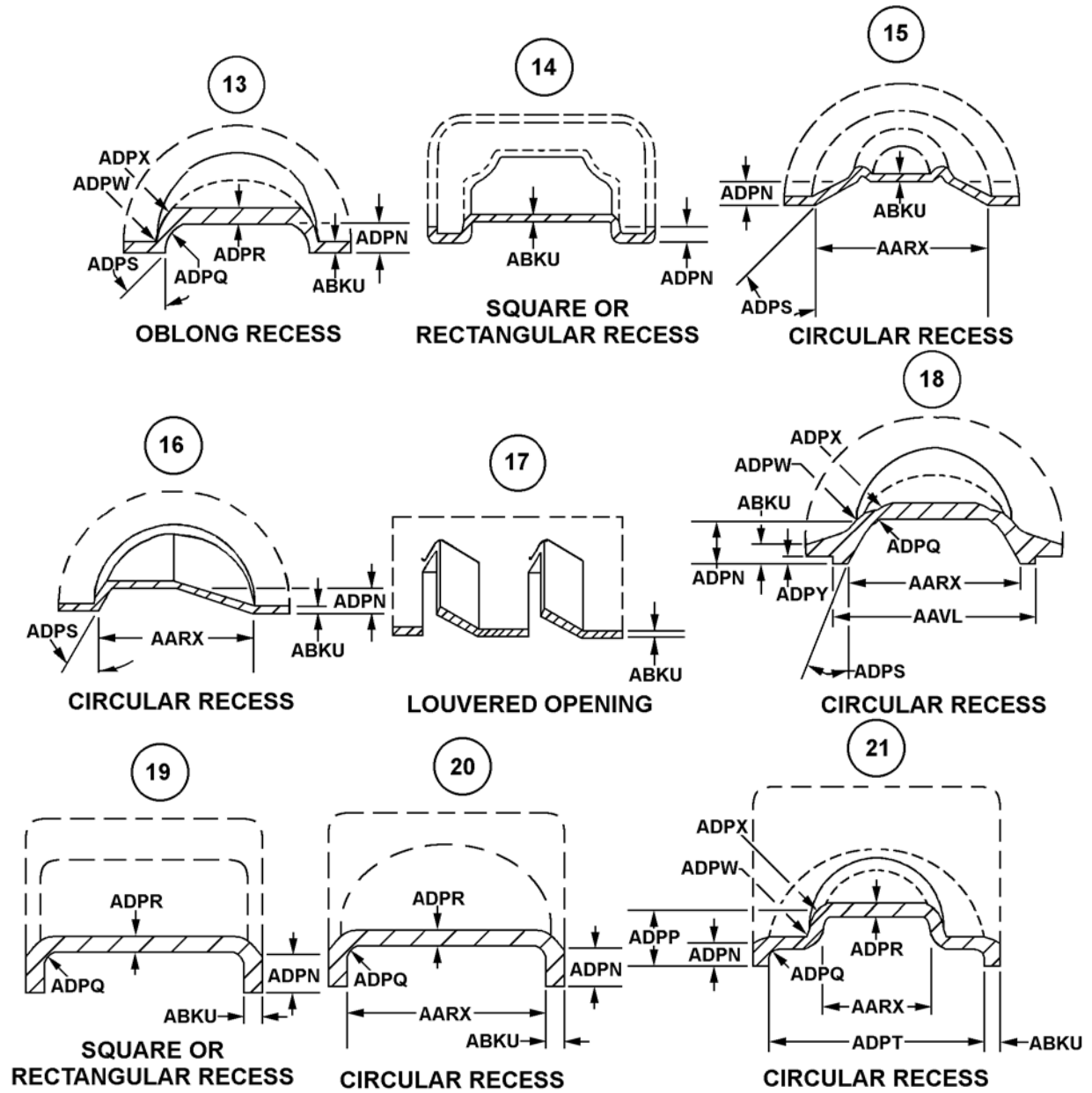
**CIRCULAR RECESS**

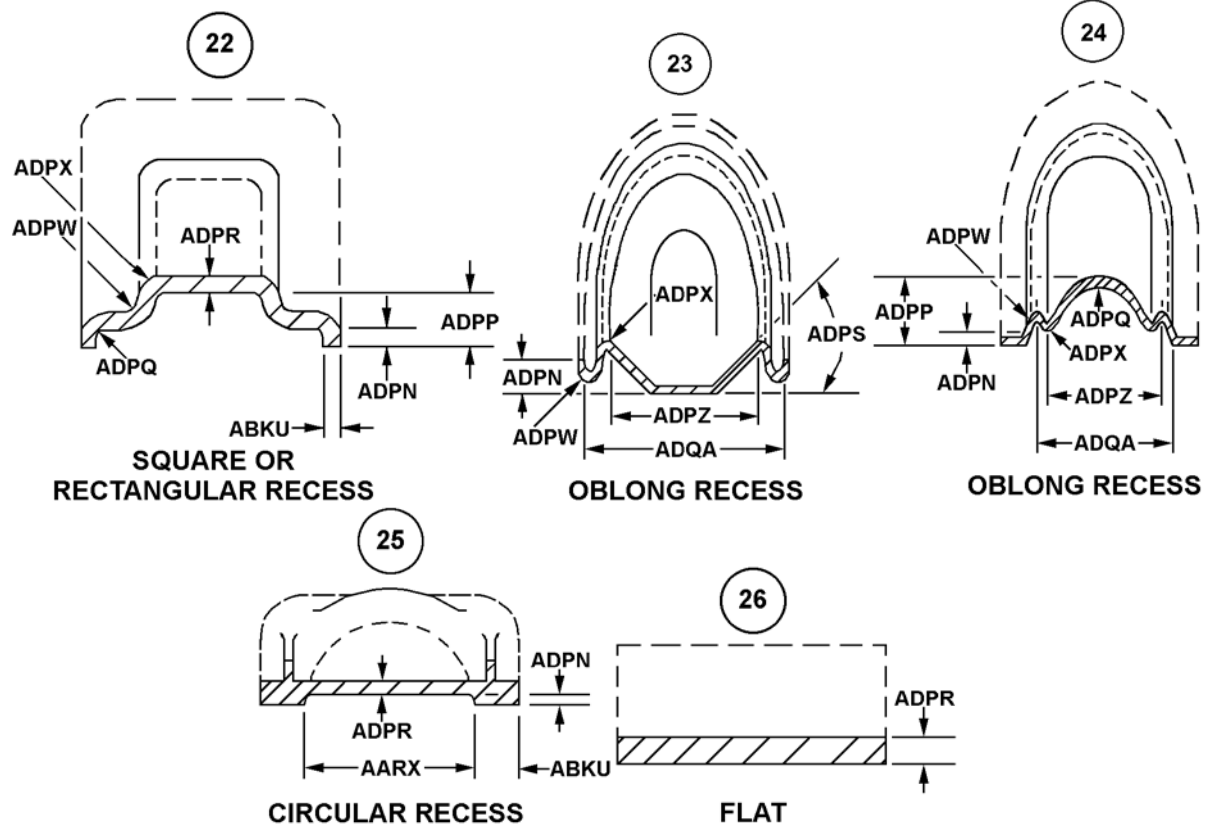


**CIRCULAR RECESS**



**CIRCULAR RECESS**





REFERENCE DRAWING GROUP C Tables  
MOUNTING OPENING SHAPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.  
(e.g., AAUBJAA0.191\*; AAUBJLA24.5\*; AAUBJAB0.185\$\$JAC0.197\*)

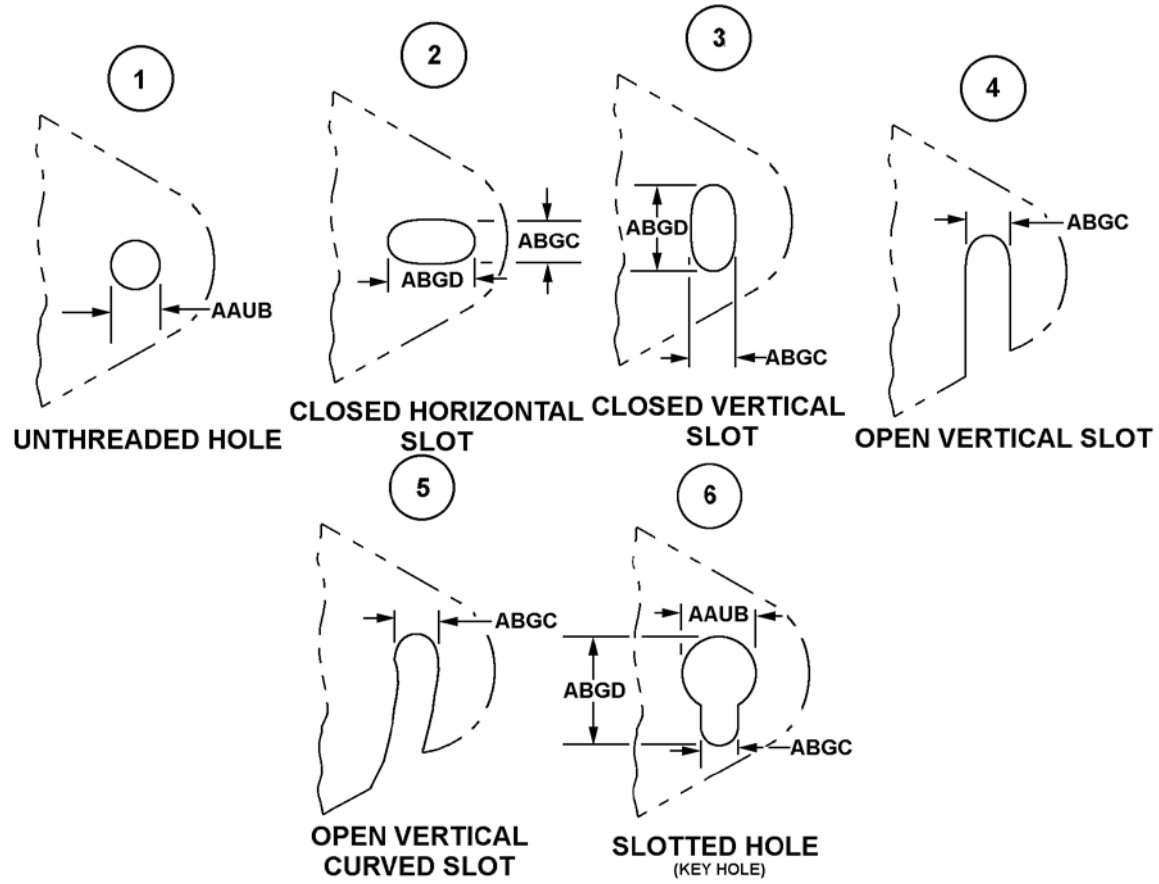
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAUB	J	HOLE DIAMETER
ABGC	J	SLOT WIDTH
ABGD	J	SLOT LENGTH

## REFERENCE DRAWING GROUP C

### MOUNTING OPENING SHAPES



## Technical Data Tables

STANDARD FRACTION TO DECIMAL CONVERSION CHART .....	117
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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000





## **FIIG Change List**

FIIG Change List, Effective September 3, 2010

This change replaced with ISAC or and/or coding.